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<210> 1934

<211> 789

<212> DNA

<213> Homo sapiens

<400> 1934

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 tgagtgcgga agtgaagggtg acagggcaga accaggagca atttctgctc ctagccaagt 180
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<210> 1935

<211> 828

<212> DNA

<213> Homo sapiens

<400> 1935

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 aatgggcaag cgtctgtcct aggagccgtg tgctgggcca cagttaaate tgagagatca 360
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<210> 1936

<211> 820

<212> DNA

<213> Homo sapiens

<400> 1936

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<210> 1937

<211> 844

<212> DNA

<213> Homo sapiens

<400> 1937

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ctcagcatct acccagtatg aggagtgtat cagagctggg aaggtgattc cagagcaggg 180
gaaaatgcaa gctccactaa tacaatgag gtgaggcaac cagtgcacag cgaggggttc 240
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cacaagaccc aacaacctca caaatccaac agacgaccaa caatagctgg ggacatgctc 300
aagaccacaca gagcaagtgc atgaagccag ggcaaggggc agcagtgagg acaaattctct 360
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aataaccagt ggctcctcga ggaatggagg ctaaggagca aactgccaaa cttattctgg 480
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<210> 1938

<211> 795

<212> DNA

<213> Homo sapiens

<400> 1938

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cttcagatgt gaaagccagg caggccatta gagttacttg gggtgaaaaa aagtcttggt 720
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<210> 1939

<211> 856

<212> DNA

<213> Homo sapiens

<400> 1939

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 gcctaacacc gtggctacta ataatacaaa gatggaggat actttgggta ataatgtgcc 240
 cctgcccac acccttcccc tccctaagag ggagactata caacagagct ccagcctaac 300
 ttcagttcct cccactactt tcagcctcac cttcaagatg gagtctgcac gcaaagcatg 360
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<210> 1940

<211> 838

<212> DNA

<213> Homo sapiens

<400> 1940

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gaacgagaag gccccggtgg acttcggcta cgtggggatt gactccatcc tggagcagat  180
gcgccggaag gccatgaagc agggcttcga gttcaacatc atggtggtcg ggcagagcgg  240
cttgggtaaa tccaccttaa tcaacaccct cttcaaatcc aaaatcagcc ggaagtcggt  300
gcagcccacc tcagaggagc gcatcccca a gaccatcgag atcaagtcca tcacgcacga  360
tattgaggag aaaggcgtcc ggatgaagct gacagtgatt gacacaccag ggttcgggga  420
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gaaataacctg caggaggagg tcaacatcaa ccgcaagaag cgcattcccgg acaccgcgt  540
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agggaggcgt cttcatctcc tggcatcccc tctnagcca cccccggccc caccgggctt  720
gaagtgctgc tgatgccctg ggatctgatt gaggatnaaa anggaaggag agatgacccc  780
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<210> 1941

<211> 658

<212> DNA

<213> Homo sapiens

<400> 1941

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agccggtggc aggcggtggg cagcccaatg gagatgctcc acccgagcag ccgtccgana  180
cggtggctga gtctgcggag gaggagctgc agcaagcggg agaccaggag ctctccacc  240
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ctgaatcagt tgctgaaaca gcacaaacaa taaagaaatc cgtanaagaa ggaaaaatag 360
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<210> 1942

<211> 398

<212> DNA

<213> Homo sapiens

<400> 1942

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 gaatgactgg aaactgattg gaaactcttt gggaaagcca ctgaaaagg gtatatttac 180
 ttctggcaca tgggaagaga aatcagatga aatttccttt gctgacttca gttctcagtc 240
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<210> 1943

<211> 641

<212> DNA

<213> Homo sapiens

<400> 1943

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aaagctactc gctaccagct tggacctgtc tgcagtatct cctctgggac ctgccatgct 180
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aggccgggac tgacaccact ggccangaag tggctgaagc tcanctggat gangatgggg 600
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<210> 1944

<211> 845

<212> DNA

<213> Homo sapiens

<400> 1944

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<210> 1945

<211> 821

<212> DNA

<213> Homo sapiens

<400> 1945

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<210> 1946

<211> 570

<212> DNA

<213> Homo sapiens

<400> 1946

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<210> 1947

<211> 535

<212> DNA

<213> Homo sapiens

<400> 1947

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gacgtgcagc tgcgaagtgc ttggatgccg tagttagcac aaggcatgaa atgcttccag	180
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<210> 1948

<211> 562

<212> DNA

<213> Homo sapiens

<400> 1948

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<210> 1949

<211> 584

<212> DNA

<213> Homo sapiens

<400> 1949

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gtgcagaaga ctctgagcga gagaagttct ccctcttctc tgcagctgtg cgggaaagtc 480
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<210> 1950

<211> 567

<212> DNA

<213> Homo sapiens

<400> 1950

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gtatccgctg cctccgttat nanatcn 567

<210> 1951

<211> 568

<212> DNA

<213> Homo sapiens

<400> 1951

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<210> 1952

<211> 573

<212> DNA

<213> Homo sapiens

<400> 1952

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 ccggccctct gcgaccccag tcgcctggcg caccggcttt tgggtctgtt actgatgtgc 180
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 cccaatgtan ttttgtgttt cnttgggtggc tttttgatan accgagtatt tggaatacga 360
 tggggcacaa tcatttttag ctgctttgtt tgcatgggac aggttgtttt tgccctgggt 420
 ggaatattta atgctttttg gctgatggaa tttggaanat ttgtatttgg gattgggtggc 480
 gaatccttan cagttgcca caatacatTT gctgtganct ggtttaaagg cnaagaatta 540
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<210> 1953

<211> 690

<212> DNA

<213> Homo sapiens

<400> 1953

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tttacgatat ccaaataaac tggacaccat cacatggacg tggcaaggac ctggagcgct   60
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tgtgtacagc ccttctgagg aggagaagag gaaccccgcg ctgtatgcca gcaacgtgcg  180
gcgagtcatg gccgaggcct tgggtgtctc cgtgactgac tacacgttcg aggactgcca  240
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ccggaccctg gacaccatcc anctggcttt caagacgtac ggagcgcaan aagacggcag  600
cgtccgcgaa ngtgaactgt cctgcatacct ccanacggcc tgggggtggc agaactcacc  660
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<210> 1954

<211> 772

<212> DNA

<213> Homo sapiens

<400> 1954

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aaaagacaat caagacggcc ggccgaggcc cctggaacgg cttaggcggc tgcggctgct   60
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gaggacatcc tgcggcccag gggcaagtga cacctgctga gagaggccca ggatggtgga  180
ggctgaggaa ctggcacagc tgcggctgct caatctggag ctctgaggc agctgtgggt  240
ggggcaggat gctgtgcggc ggtcagtggc cagggcagcc tcggagtcaa gcctggaatc  300
cagcagcagc tacaactcag agactccatc gacccagag acgtcctcaa cttccttgag  360
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cctccgtgat gtggccagat cgggggtggc ctctctccca cctgccaatt gccagcacca 480
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 ggaccagag ccctcaggga agctgggtga tccaggaccc aggaggcaca gaccccgagg 600
 tcctcctggc tcaacagagc aactgtccaa gcccagggtg acttctctga agaattctga 660
 ttccctgaaa agaacttgcg cctccaggnc ataccttggg tatgaatgga ttgcnttttt 720
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<210> 1955

<211> 623

<212> DNA

<213> Homo sapiens

<400> 1955

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 ctgctaccac gaaaaggacc cggacgggtg ctatcggctg gtggactatt tggaagggat 180
 ccggaanaat tttgatgagg ctgccaaggt gttgaagttt aactgtgaan anaaccagca 240
 cagtgatagc tgctacaaac tgggggcccc ctatgtgact ggaaaagggt gtctgaccca 300
 ggacctgaaa gctgccgcca ggtgcttttt gatggcgtgt ganaancctg gaaagaantc 360
 aatagcagca tgtcacaacg ttggcctcct ggacatgat ggacaggtta atgaggatgg 420
 ccagcctgac ttgggaaagg ccaggggact actacacaag ggcctgtgat ggtggctata 480
 cttccagttg cttcaacctc agtgccatgt tcctgcaggg tgccccangc tttcccaang 540
 acatggacct ggcatgtnaa tactccatga aagcctgtga cctgggtcat atctgggcct 600
 gtgccaatgc cantcccatg tnc 623

<210> 1956

<211> 830

<212> DNA

<213> Homo sapiens

<400> 1956

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gtaactttta agtgggtcgga acacgccccg cgctgctggg tcccgccaga cacgccgccg 60
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catgantgtt aggccccgag cctggccctt ggcagcttgg gangtggctg gggctgcttt 180
tgcctttgcc aganacagct ccaactgang acctctccaa cgggcccata cacagtcctt 240
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gcagtccaag gcagtgtcca tcaggaggca gctgggactc ggggaccggc ccaacgactc 360
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ccccactgtc ctgctcatag acgtcagctg cttcctgttc ttaatcttgg tgttttctat 480
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ggaatgggtg tgggaagacc catccactac ctgtccttcc anaaggcaca tcatcttccc 720
tgtttggtgg gtggtcactt ttttgtccct gtgttttcac ctgnctgtta anctctccag 780
gggaatttct tggganaaaa aancctttta attttnggg aagaaaacca 830

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<210> 1957

<211> 457

<212> DNA

<213> Homo sapiens

<400> 1957

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aaaaggccag cggcgcaaaa tggcggcggc gatgaccttc tgccggctgc tgaaccggtg 60
tggcgaggcg gcgcggancc tgcccctggg cgccaggtgt ttcggggtgc gggctctgcc 120
gaccggggan aangtcacgc aactggcca ggtttatgat gataaagact acaggagaat 180
tcggtttgta ggtcgtcaga aagaggtgaa tgaaaacttt gccattgatt tgatagcaga 240
gcancccggt agcgangtgg anactcgggt gataccgtgc gatggcggcg ggggagctct 300
tgccaccca aaagtgtnta taaacttggg caaagaaaca aaaaccggca catgcggtta 360

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ctgtgggctc cagttcanac ancaccacca ctanagcgtg tggcacgccg ggggtcccgc 420
ancatcctgt gagcatttcc gcggggaagc tgancac 457

<210> 1958

<211> 734

<212> DNA

<213> Homo sapiens

<400> 1958

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ggagactggt gcacgacctc ctgccccccg aggtctgcag tctcctgaac ccagcagcca 120
tctacgccga caacgagatc agcctgcgtg acgttgaggt ctacggcttt gactacgact 180
acaccctggc ccagtatgca gacgcactgc accccgagat cttcagtacc gcccgtgaca 240
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tccactacgt gcagctgggg acagcctaca ggggcctcca gcctgtgcca gacgaggagg 420
tgattgagct gtatgggggt acccagcaca tccactata ccagatgagt ggcttctatg 480
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acaaggacgt tacggaccn tccgaaactt catgttaaag ggcctcatgt tccanttga 660
ttcaaccagg acatggaaaa aattctcct gaaaaggga tnaaaacttt gcttttctn 720
aanccccctg gtgg 734

<210> 1959

<211> 676

<212> DNA

<213> Homo sapiens

<400> 1959

tttacgatat ccaaataaac tggacaccat cacatggacg tggcaaggac ctggagcgct 60
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 tgtgtacagc ccttctgagg aggagaagag gaaccccgcg ctgtatgcca gcaacgtgcg 180
 gcgagtcacg gccgaggcct tgggtgtctc cgtgactgac tacacgttcg aggactgcca 240
 gctggccctg gcggaaggac agctccgtct ccccgctgac acttgccctt tagaatttgc 300
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 ctngaaaga gccaggatga agggaggaga gaagataggt attgcggagt ttgccgcctc 420
 cctggaagtc cccgtttctg acttgctgga agacatgttt tcaactgttcg acgagagcgg 480
 cagcggcgag gtggacctgc gagagtgtgt ggttgccctg tctgtcgtct gccggccggc 540
 ccggaccctg gacaccatcc agctggcttt caagacgtac ggaacgcaag aagacggcag 600
 cgtcngcgaa agtgacctgt cctgcatcct cnanacggcc tgggggtggc agaactcacc 660
 gtgaccnanc tattcc 676

<210> 1960

<211> 586

<212> DNA

<213> Homo sapiens

<400> 1960

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 gggacctgga gctgacgcct agacacttgt attagcttta atagaagana aatggaggag 120
 ccatagaata ttaaggatga attcaggaag gcctgagacc atggaaaact tgcctgctct 180
 ctacactatt ttccaaggag aggttgctat ggtgacagac tatggggcct ttatcaaaat 240
 cccaggctgt cggaagcaag gtctgggtcca tcgaactcat atgtcatcct gtcgggtgga 300
 taagccctct gagatagtan atgttggaaga taaagtgtgg gtgaagctta ttggccgaga 360
 gatgaaaaat gatagaataa aagtatccct ctccatgaan gttgtcaatc aagggactgg 420
 gaaagacctt gatcccaaca atgttatcat tgagcaagaa nanangcgga agcgatcctt 480
 ccaggattac actgggcana aaatcacccct tgaagctgtc ttgaacacta cctgcaanaa 540
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<210> 1961

<211> 721

<212> DNA

<213> Homo sapiens

<400> 1961

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tgttaccact acggtgacca gcccagttct gtgtaataac aacatctccg agggcgaagg 60
gtatgtggag tctccagatc tggggagccc cgtcagccgc accctggggc tcctggactg 120
catttacagc atccatgtct accctggcta cggcattgan atccaggtgc agacgctgaa 180
cctgtcacag gaagaagggc tcctggtgct ggctggtggg ggatccccag gcctggcccc 240
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ccggctgctt ctgcacttcc agagcccacg ggtcccaagg ggcggtggct tcaggatcca 360
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tgtgacggac ctgcaccctg ggggcactgc cacctttcac tgtgattcgg gctaccanct 480
gcaggggagan ganaccctca tctgcctcaa tggcacccgg ccatcctgga acggtgaaac 540
ccccanctgc atggcaccct gtggtggcac catccacaat gccaccctgg gccgcacgt 600
gtcccanaac ctgggggaac cgtanggccc aacctcacct gccgttgggt ccttgaaaca 660
actnaagggc ccngctgca cctgcacttt naaaaggtct ccctggatga agaacatnaa 720
c 721

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<210> 1962

<211> 762

<212> DNA

<213> Homo sapiens

<400> 1962

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atattccatg gagaccctgg ctggaggatt gcaggagagt ccaggaggc aggactgcca 60
atggcaccag gcttcgcagc catgcacctg cagccctcag gcagcactgt ccattgtcat 120

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acgantgtgg caggtgtgag gcatcgcac tgctcacccc gggggataat gcacagcagc 180
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 caggcttggt ccttcaacac tgggtgganan agacacgctg tcatcaggcc caagaaatac 300
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 gagggaccct ccactgggtc aaatggcctg ttctcagaga tgcagcaatg gaccctcgtg 420
 aatactgaac tgataatcat gggaaggaga ctggctctcc tggattccct catgattcct 480
 ctgantgaca atgtgatgtt ggccgactgt gtcttcttca gaatatcata tacacttgag 540
 gtctccagga ancctccaat tacattatct tcttggtcga tacagtgaac agtaattctt 600
 atcctggatt cctcgttact ganacttttc ttgccttttt tggttancct tgattttatt 660
 taaggacttc ctccaacagg ttatacttaa ctgtctacct cantctctgg aantttttaa 720
 aatgttcanc ttaattaaaa aaatnaattc tcctggnaaa cc 762

<210> 1963

<211> 829

<212> DNA

<213> Homo sapiens

<400> 1963

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 tcctgggggt cagccgtgcc gcctcgttac gatgaccagt gtggttaaga cagtgtatag 120
 cctgcagccc ccctctgcgc tgagcggcgg ccagccggca gacacacaaa ctcggggccac 180
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 gaagccgtca acaagcagtt gcaccagaag ttgactgaaa ctcagggaga gctgaaggac 480
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 agcaagggcc ttgatccagc tttaggcagt gagaccctgg catcacgaca agaattccact 600
 actgatcaca tggactctat gttgctgtta gaaactttgc aagaaggact gaagcttttt 660

aacgaaacag ccaaaaagca gatggaagan ttncaggnc taaaggttaa gctggagatg 720
 aaagaagaaa gaatccgatt cctagaacag caaaccttat gttacaatcc agttaantga 780
 tttaaccacn gcccttaaag aaaatgganc ngcttattan aaaatgtta 829

<210> 1964

<211> 462

<212> DNA

<213> Homo sapiens

<400> 1964

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 cggacctctc agcccaacta ccggcctcaa ggcatggagg gatttttgaa atcagatgag 180
 aggcagagat tggccaaaga aagacgagaa gaaagagaaa aatgtctggc tgctcgggag 240
 caacagatcc tggagaaacn gaaaanagcc aggctgcagt acgaaaagcn aatggaggag 300
 cgatggcgaa aactggaaga gcagcggcag cgggaggacc aaaagagagc tncgtgtgaa 360
 gagaaaagga aacataaanc tccgggagga ngacganccg ctggaggcga tgatgcgccg 420
 gtccctngag cgcacacagc agctggggagc tgaaaaanaa gt 462

<210> 1965

<211> 671

<212> DNA

<213> Homo sapiens

<400> 1965

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 tctttgccta catgaaccac agagtcccc ggacgaggaa ggagatcttc gaaaccctca 180
 tcaagggcct gcagcggctg gactacagag gctacgactc ggcaggtgtg gcgatcgatg 240

ggaataatca cgaagtcaaa gaaagacaca ttcagctggt caagaaaagg gggaaagtca 300
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 caaattacaa agatcttgag gaaatttctg ggaaagcnaa ggctacgant ttgagtcaga 540
 aacagatnca gaagaccatc gccaaagctg attaaattat gtgttcgaca acagnanaaa 600
 ctgaaggaca ttacgttttt ccaccgttgg ttccaaaaaa anttcattcc ancaantttg 660
 ggaaaggtgc a 671

<210> 1966

<211> 738

<212> DNA

<213> Homo sapiens

<400> 1966

gtcactgcaa ggccgcccggg ggacacgttg gctgcgtttt cggcgggctt cccgggtaca 60
 aaaatggctg tggctagcga tttctacctg cgctactacg tagggcaciaa gggcaagttt 120
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 gaagaactga agagaattat tgatgacagt gaaattacaa aagaagatga tgctttgttg 300
 cctccccctg atagggttgg ccgacaggag cttgaaattg taattggaga tgagcacata 360
 tcttttacca catcaaaaat aggttctctt attgatgtna atcagtcaaa ggatcctgaa 420
 ggcccttcgag tattttacta tttggtacaa gacttgaaat gtttantttt cagtcttatt 480
 gggattacac ttcaagatta aaccaattta aattgtntgt tttcaggctg tttgtatatt 540
 taattaangg atgggnangg gttatttgtc atttacngta ttgggggttt ttatgaaatg 600
 ttgaagccaa accaaaaaa atttgttatg ttaaactgga aaaataaaga aaaatacatt 660
 tanccaaagc tntaaatggt tatcccttta actttgantt ccccatgttg ggnttgggac 720
 aagtcccccc acaacaac 738

<210> 1967

<211> 533

<212> DNA

<213> Homo sapiens

<400> 1967

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aatgccaaaa tggcgatgcc taccacctan aactggattg tgcgctccat ttctttcacc 60
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gaagcaagcc attttgcaag cctggaagga gcgctggagt gactaccaat gggcaatcaa 180
catgaagaaa ttctttccta aaggagccac ctgggatatt ctcaacctgg cagatgcgtt 240
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gactgtgccg agcccttctt ancgccctcc actggctgct gcgctgcacg gcagcctctg 480
canaacggct gcgggganggg ctggangccg gcactccagc cgctggggga naa 533

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<210> 1968

<211> 613

<212> DNA

<213> Homo sapiens

<400> 1968

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aagaaggcgg cgggggaaga ggcggtcctg gggtagagtt tgcaagcttt ctgactaggc 60
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cggctatggc gaacaggaac tggatgcca ctctgccctt atggaattgg acaaaggcct 180
aagatctggc aaacttggtg aacagtgtga agcagttgtt cgctttccca gactttgtca 240
gaagtatcca ttccctattc ttatcaattc tgcatccta aagttagctg atgttttcag 300
agttggaaat aatttcctga ggctatgtgt tcttaaagtt acccancaaa gtgagaaaca 360
tttggagaac attctaaatg tggatgaatt tgtgaagaga atttttctg tgattcatag 420

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taatgatcct gtggcaatag ccatcacctt ccggatgttg ggaagtctgg catcaataat 480
 tcctgagagg aagaatgctc atcatagtat tcgtcagaat ttagattcac atgataatgt 540
 tacaanttga agcttgctgt ttttggctgc ctgcaaactt ctctggcncc ngtcnnaaan 600
 ggattttgct tgt 613

<210> 1969

<211> 741

<212> DNA

<213> Homo sapiens

<400> 1969

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 cctcagagat ggctctgagt aaatcaatgc atgcaagaaa tagatacaag gacaaacctc 180
 ctgactttgc atatctggca tccaaatata canattttaa gcagcatgtt cagataaatc 240
 tggatggaag agtgagcctt aatttttaaag accccgaagc agtcagagct ctgacgtgta 300
 ctctcctaag ggaagatttt ggactttcta ttgatattcc attggagaga ctaattccca 360
 cagttccctt gagactcaac tatattcaat gggtagaaga tctgatcggc caccaggatt 420
 ctgacaaaag tncctctcga agaggaattg acataggcac gggggcatct tgcattctacc 480
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 aagtgggtga angttgccac agaaagacac tccttgaatg ggatgctcct taaagaaaga 660
 aatctgaaga ataactctat gaactttttg cattgttgcc aaaccctcc cctttttttt 720
 tggccaaatt ccaatttggg a 741

<210> 1970

<211> 727

<212> DNA

<213> Homo sapiens

<400> 1970

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gggattggaa cgttactcct tggcttatta tcatccacca gaaactggga atgaagaaga	660
agaagccgaa gaaaggggtt cctattaggg tttaaaaaga aaaattncn ggaagaaaga	720
aannnag	727

<210> 1971

<211> 609

<212> DNA

<213> Homo sapiens

<400> 1971

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tgctggacag cttcattacc atctcagaag cagcaaagga gccagcaaaa gctaaggtag	360
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 agtgacnaag attgcggcgg tgcccgaag cactgtttcg gcttcgacat cctacaggaa 540
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 anaaaccca 609

<210> 1972

<211> 739

<212> DNA

<213> Homo sapiens

<400> 1972

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 ttttgcata ctttgaagt atagatcctg gcctcaaaga agatactctg gaattcctga 300
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 gtgggaacca ctccaataaa tttggaaaga aanaaatttg ttcagtttg gttactgggg 660
 ctgtttggct taaccgggcc cttccttggg aanaaatccc cacccatttt aaattcaccc 720
 cagaaaaanaa aaccggccc 739

<210> 1973

<211> 181

<212> DNA

<213> Homo sapiens

<400> 1973

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t 181

<210> 1974

<211> 747

<212> DNA

<213> Homo sapiens

<400> 1974

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ggtgccatcc agcgcgctca gcgaggtcag cctgcgcctc ctctgccacg atgacataga 180
cactgtgaag cacctgtgtg gcgactgggt ccccatcgag taccagact catgggtatcg 240
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gaaaganttc aggaagcacg gcattaggtt ccctcttact tgaaaagttt aaaggatcac 480
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tccccttant tacttactcc attccaaagg ggttcctcca aaaaatnggc ttccacccta 660
atgttcctcc ttacattcaa accggggggg gggcaacccc tccccttggg naacnaattt 720
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<210> 1975

<211> 734

<212> DNA

<213> Homo sapiens

<400> 1975

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cgattaagga ggcctttcgg ctggcgcagc agccgcacca gaaccaggcg aagctggttg 180
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tttcacgact tccagggatc cccaaggga ttgaatnaat gcccanttg gttaaatgnc 660
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ccggggccat ttnt 734

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<210> 1976

<211> 743

<212> DNA

<213> Homo sapiens

<400> 1976

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gccgccgccc ttcgagggcg ccccaggccg cgccatggtg aaggtgacgt tcaactccgc 180
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aagaagagcc tgggtgtggt gcatgtgctt tggactagca tttatgcttg caggtgttat 360
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 gtggnataa agtacatcaa agatgatgtc atcttaaag agccctcttg cagatgcccc 480
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 ttccaatgaa cttttaacaa agaaaacttt acagccttan ttttaanant cttaaccttt 660
 gggaataaag ttgcttattg ttgaatcccc tctttgaaac actttcccat tttggtttat 720
 tgccaccccc aanaaaaacc ctt 743

<210> 1977

<211> 727

<212> DNA

<213> Homo sapiens

<400> 1977

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 cgaggtctcc tcaaccttcc ccgaagccgc tcacagcctt gtgatctgga tgcccgcaaa 180
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 gacaagatga atcagaaacc atactcagga ggtctttgtc tccaagaaac agcccgggaa 300
 ggcagcagca tctctccacc atggttcatg gcctgtagcc ccccaacct ctctgttcc 360
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 gctgtgcggt ggggtcggca ggcgctgagc aagcggacac tgtgccagcg ggactttggg 480
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 naaccttggg gaatgggggg ttttaattgga agggctcccg actccaaggg cancttggga 660
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 gccnggg 727

<210> 1978

<211> 732

<212> DNA

<213> Homo sapiens

<400> 1978

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gttttaagca gaacatgaa aacctctgtg acaactccct ccagctccaa gaggccggg 180
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tggatgcttt ataaatttgt tcaaagggca aaancgaacc aatttaatct tccccaaaa 660
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accaaacggg tt 732

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<210> 1979

<211> 765

<212> DNA

<213> Homo sapiens

<400> 1979

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tccgcaccgg catgaagctt atcgtgggca tcggaggcat gaccaacggc ggcaagacca 180

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cgctgaccaa cagcctgctc agagccctgc ccaactgctg cgtgatccat caggatgact 240
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 aaagtatang caggaaaatg ggaagccaac ggggtgttga aaattggtct acctggaacn 660
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<210> 1980

<211> 556

<212> DNA

<213> Homo sapiens

<400> 1980

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 aaagcagact gccacaaat cgaccggtgg taaagcacc aanaagcaac tggctacaaa 180
 agccgctcgc aanantgcgc cctctactgg aggggtgaaa aaacctcatc gttacaggcc 240
 tgggtactgtg ncgtccntg aaattagacg ttatcagaag tccactgaac ttctgattcg 300
 caaacttccc ttccagcgtc tgggtggcgan aaattgctca agactttaaa acagatctgc 360
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 tttttgaaaa caccaacctg tgtgctatcc atgccaaaca tgtaacaatt atgccaaaag 480
 acatccanct tngcagccg catacgtgga naacgttgct taanaatcca ctatnatggg 540
 aaacatttca ttctcc 556

<210> 1981

<211> 742

<212> DNA

<213> Homo sapiens

<400> 1981

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aatgatgaac gcctgctgag catttgtaat gtctgcaaag caggaaaaaa gaaaaagaac	180
tgttttttat gtgccacagt gacaactgaa cgccctgtgc aggttaaggt ggtcaaagtc	240
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aaaatatata aatgggttgc cagcagcact gctgaaaaga atgcatttat ttcatgcatt	420
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gcttttggaa agaatctgtt ccaagtggga gaaaatcaga gtgtgacagg gaggtgatga	540
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aaattaatga tggnaaggct gttgaatatt gcaatctccg aaatgccggn aagccttttg	660
cagaaaaaat ttgtcccaa aaancttgcc agggttgctt anaatggggg cttaacantc	720
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<210> 1982

<211> 763

<212> DNA

<213> Homo sapiens

<400> 1982

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gctgcacccc caggagcctc tgcctcagtg agtgtcctct ggagccccc aagcctcacc	180
gcctctgtgc cactctgaag gactgcccgg gaccctgga actgcaattg tcctgtgagt	240

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 tgcacttcag atccaacgaa ggaggaggaa ggcgtgtgct gtggtctctc agcaaacctg 480
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<210> 1983

<211> 480

<212> DNA

<213> Homo sapiens

<400> 1983

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<210> 1984

<211> 778

<212> DNA

<213> Homo sapiens

<400> 1984

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<210> 1985

<211> 787

<212> DNA

<213> Homo sapiens

<400> 1985

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<210> 1986

<211> 698

<212> DNA

<213> Homo sapiens

<400> 1986

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<210> 1987

<211> 766

<212> DNA

<213> Homo sapiens

<400> 1987

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tccaaggga accagaaaaa ttggttaaaa naaaaatttt gccaaaccag aatnttccag  720
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<210> 1988

<211> 698

<212> DNA

<213> Homo sapiens

<400> 1988

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<210> 1989

<211> 475

<212> DNA

<213> Homo sapiens

<400> 1989

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 ctttaagcctg tgtccacggg ttaaaaaggt ggatctcagg tccctgcacc atgcaacttt 420
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<210> 1990

<211> 463

<212> DNA

<213> Homo sapiens

<400> 1990

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 gtgcgaccag gtgtctgcct gtatcccant gttcangctg gctanacggc ggaagaagat 420
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<210> 1991

<211> 281

<212> DNA

<213> Homo sapiens

<400> 1991

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 agaaggaaaa aacggaacga gacaagaatc agagcagtag caacagaaag gctgtttgtcc 180
 ctggaccggc agagcatccc ctgcagtaca actacacttt ttggtntctcc aggagaaccc 240
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<210> 1992

<211> 725

<212> DNA

<213> Homo sapiens

<400> 1992

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 atgcaagctt gccaccccc agcccaaaga aaatgccact tcttgccant aagcatcgag 600
 cccatnttgg taanccctcc attgttccgc cttgaaaagg gcccncacc aaggggcccc 660
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 aaaag 725

<210> 1993

<211> 499

<212> DNA

<213> Homo sapiens

<400> 1993

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 ctttgtcaga acaagttcac cagccgttgc ttgaagaaca gtgtagcatt gacgagcctt 420
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<210> 1994

<211> 762

<212> DNA

<213> Homo sapiens

<400> 1994

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aactccatct tagtggcagg aatataatga aactaccac gcaagaacat ggttgaatca 180
catttgcttg acttagggca aagtacgaaa gagagacaaa agggttctct tggaacaag 240
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acagggtac atttgacag gcagtttctc tccgggccgt agttttcact gatgatcacc 360
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ccggcacccc cggcaagccc actatcactt ccgacttcca acgtggcatc cgtgagatct 480
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cccattttcc cccgaacagg cgaaatttcc ccccttgaag aaaaacnaat nccttnnaac 720
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<210> 1995

<211> 758

<212> DNA

<213> Homo sapiens

<400> 1995

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gatattggcc ttttgggatt gaaagggaag cagagaaagt taaaggagcc cttgccaat 180
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tgcagggatg ctttccacac cagttgtgtg gcggtaccca gtatttcaca gggcctgcga 480
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<210> 1996

<211> 766

<212> DNA

<213> Homo sapiens

<400> 1996

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gggtgtacgc acagatgcac ctctgatgca gtttaaactc atccttttaa agtacagcac 180
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cacatctctg gccttaaact ggattccatg aatggtttaa tggtttttcc ctggtttngg 720
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<210> 1997

<211> 784

<212> DNA

<213> Homo sapiens

<400> 1997

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gagggaacag tcttccattt tcagctgggc cctgtgacat ctaacagcag tgagaagcag 480
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tccccacccc gaatgttctc catcctccct ggtttcctaa aaaaaagaaa ggccaaggct 720
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<210> 1998

<211> 500

<212> DNA

<213> Homo sapiens

<400> 1998

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cggaagangg acaaagtgtc cttctatggc cggaagatta tgcggaaggt gtcacaatcc 420
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<210> 1999

<211> 754

<212> DNA

<213> Homo sapiens

<400> 1999

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gtattattaa aaatccacca gttagccctg gcttaaaatc atttgttatg ttgttctggt 660
agttattcta ttccccaaga aaacttattt ggaaccatgg aataattcca gtttttaata 720
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<210> 2000

<211> 745

<212> DNA

<213> Homo sapiens

<400> 2000

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<210> 2001

<211> 750

<212> DNA

<213> Homo sapiens

<400> 2001

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cctcgacacc atggtggaca cttttcttca gaagctggtc gccgccggca gctaccagag  180

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<210> 2002

<211> 806

<212> DNA

<213> Homo sapiens

<400> 2002

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<210> 2003

<211> 720

<212> DNA

<213> Homo sapiens

<400> 2003

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<210> 2004

<211> 848

<212> DNA

<213> Homo sapiens

<400> 2004

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<210> 2005

<211> 859

<212> DNA

<213> Homo sapiens

<400> 2005

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<210> 2006

<211> 756

<212> DNA

<213> Homo sapiens

<400> 2006

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<210> 2007

<211> 753

<212> DNA

<213> Homo sapiens

<400> 2007

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<210> 2008

<211> 753

<212> DNA

<213> Homo sapiens

<400> 2008

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gcaccaagtt ctacctcatg tttggaggat cttgctagct atggccctcg tactcggtc 300
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 tcctgggggc tgctgtttta ttattcctga atgcctcctg ggggtggggg tatttccttt 660
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<210> 2009

<211> 769

<212> DNA

<213> Homo sapiens

<400> 2009

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 aaaactgtta acctcttacg gatttattca gtgttcagaa cgtcaagcta gacttttctt 180
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 acaagcccgc tgcagggan tagtttgtc catgaaggan gcatttggct ttattgaaag 540
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<210> 2010

<211> 884

<212> DNA

<213> Homo sapiens

<400> 2010

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<210> 2011

<211> 787

<212> DNA

<213> Homo sapiens

<400> 2011

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<210> 2012

<211> 523

<212> DNA

<213> Homo sapiens

<400> 2012

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 gctacatcct gcctgtgtat ggcatctgcc gcgaacctgt cggcctggtc atggagtaca 360
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523

<210> 2013

<211> 851

<212> DNA

<213> Homo sapiens

<400> 2013

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tggcttctgc tccaactgga tctggaaaaa cattagcttt tagcattcct attttaatgc	180
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ttgccagcca gattcacaga gagttaataa aaatttctga gggaacagga ttcagaatac	300
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<210> 2014

<211> 841

<212> DNA

<213> Homo sapiens

<400> 2014

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caacaactgg agggaaatga tgcccctgct gtccctgac tttctctgccc tcttcacct	180
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<210> 2015

<211> 424

<212> DNA

<213> Homo sapiens

<400> 2015

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cctcctcagc cagccatgct ggagcatctg agctcgtgc ccacgcagat ggattacaag	180
ggccagaagc tagctgaaca gatgtttcag ggaattattc ttttttctgc aatagttgga	240
tttatctacg ggtacgtggc tgaacanttc ggggtggactg tctatatagt tatggccgga	300
tttgcttttt catgtttgct gacacttent ccatggccca tctatcgccg gcacctctc	360

aagtggttac ccgttcnaca atcnagcaca gacnacaaga aaccagggga aagaaaaatt 420
naga 424

<210> 2016

<211> 669

<212> DNA

<213> Homo sapiens

<400> 2016

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<210> 2017

<211> 774

<212> DNA

<213> Homo sapiens

<400> 2017

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<210> 2018

<211> 762

<212> DNA

<213> Homo sapiens

<400> 2018

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 tcatgatgg cagccatgag tggacagtaa agcaccgcta cagcgacttc catgacctgc 180
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gaccttttgg gaccagcaac attcagganc actcctgccg ttcgacctat caatattcaa 660
gtccctgcat caggtggana taantcctgt gatgcttaac acatcnaaag ggctggtcnc 720
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<210> 2019

<211> 580

<212> DNA

<213> Homo sapiens

<400> 2019

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<210> 2020

<211> 673

<212> DNA

<213> Homo sapiens

<400> 2020

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<210> 2021

<211> 576

<212> DNA

<213> Homo sapiens

<400> 2021

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<210> 2022

<211> 605

<212> DNA

<213> Homo sapiens

<400> 2022

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<210> 2023

<211> 784

<212> DNA

<213> Homo sapiens

<400> 2023

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<210> 2024

<211> 631

<212> DNA

<213> Homo sapiens

<400> 2024

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<210> 2025

<211> 717

<212> DNA

<213> Homo sapiens

<400> 2025

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aagaagactg gctctgaaaa aaattattcc acagtgcacg gcaagaagat ttcacagacc  600
tgattgttat taatgaagat cgtaaaaccc aaatggactt attttgantc ncttgcccaa  660
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<210> 2026

<211> 866

<212> DNA

<213> Homo sapiens

<400> 2026

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aaaggagaaa ttaacaaaat tctcacctga ggaaaaagga gagactctag acattcagag  180
tcttgaaaca gcaatcaaaa ggactgaagt ggggttaaga ggattttaag tatgatagaa  240
cgagggtgta ttccaccaac agcaaggatt acctttcaga atccacccat tacaccaga  300
gcagctcttc tgcatagttt tgatgaagca cgtnagattc caactgtagc cactttcact  360

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atacctcggg aaccacctcc atctccagca gaagtgaagt tctttcccaa gaaacaaaga 420
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 tctcttggga acacgttcaa naaattttctc aggaactatg ctattccaga aatccaaatt 780
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<210> 2027

<211> 760

<212> DNA

<213> Homo sapiens

<400> 2027

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 tgaaagaaga aataaatatt gcttgtattg aagctaaaca agcaggagaa acaattgcag 180
 cacttacaga cataaccaac ttgaaccatc tggaatctga tgggcagatc acaattttta 240
 cagacaaaac aggagtata aaggctgcaa gattacttct ttcttcagtg acaaaagtgt 300
 tgttgctggc agaccgagta gtcattaaac agataacaac atcaagaaat aaggttctcg 360
 caactatgga aagactagag aaagtgaata gctttcaaga gtttgtccaa atattcagtc 420
 aatttggaaa tgaaatggtg gagtttgcac atctgagtgg agatagacaa aatgatttga 480
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 aaaacaaana aggagtattt gaccgtatga aagtggcatt ggataangtc cttgaaattg 660
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<210> 2028

<211> 692

<212> DNA

<213> Homo sapiens

<400> 2028

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tccccgggt ggggccccgg gccgaggcga tggcgccctg ggcgctcctc agccctgggg 60
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acgataccga gctgcgga tgggaggagc agggggagct gctcctgccc ctcaccttcc 180
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<210> 2029

<211> 914

<212> DNA

<213> Homo sapiens

<400> 2029

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gaagaactac tataagagga tagagccgc agatgctcat gtgctgcaga aaaacctcaa 120
agttccttct ggtcagaatg cagatgtgca aaagacagac aactgaacaa attacaaatg 180
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aactttctta cacttgcttg tcgccaaata aaagagaggc ccattgattc ctccccacc 240
 ccaacacttt tcttttaaag cttttctccc tccttggttct tgtttttctt tcttcctttc 300
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 cagttgaagt tagatgggcc taaacattta attgtcaaata aatttcaaata ttaatgtcct 480
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<210> 2030

<211> 799

<212> DNA

<213> Homo sapiens

<400> 2030

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 ccgtctgcac aacgaccggg tgactatgt gactgagaag attatgaagc tggccgcaa 180
 tatttccggg gacaagctgg tgctgctggg gacctgttt ggaaaattca ctgaaaccca 240
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 tcatcaagca gacattgggg aatatgtgcg gcatgaagag acgttgactt aaaacgaagc 420
 cattccaagg acagacggct gtatggaaag gccgagcttt gtttctgtg tttgtgtgga 480
 ctccaccatc atgttgaatt ttgtcaacac tctggcctct tcagggactt cttatttact 540

gtactctcta tcactgacaa atgcangctg gattcttatt atatacagag atggctcaaa 600
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ttcttgttct gaaaaaataa gttcaaaatc attggaacca ngaaacaana ataacttatt 720
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<210> 2031

<211> 722

<212> DNA

<213> Homo sapiens

<400> 2031

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tgaaggccaa acgctcccgt ggtgggtgagg actcgacttc ccgcggtgag cggagcaaga 180
agttaggggg ctctggtggc agcaatggga gcagcagcgg aaagaccgat agcggcgggtg 240
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ataccggttg gggcagctcc agtagccgct tgcatagtta tagctccccg agcaccaaaa 360
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cctctggggc cgcctcctca gctcccggcg gcggggacgg cgcggaatac aagactctga 480
agataagcga nttgggggtcc cancttaatg acgaagcggg ggangacgcc tgtttcatga 540
gttcaaacgc ttcggtgatg taagtgtgaa aatcagtcac ctgtcgggtt ctggcacggg 600
gatgaacggg tacctttgtg aacttccggc ggccaaaaga cgcgcgggcn gncaancatg 660
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cc 722

<210> 2032

<211> 772

<212> DNA

<213> Homo sapiens

<400> 2032

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ttatgctaac atgaagaaaa gagaaggac tcagctttct tcccaacagt ctgtgatgtc 60
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tttgaaaag aaaacagaat cagcaacttt tcgggtgtgt ggtgaaaatg tcacgtgtgt 180
ggaatatgct atctcctggc tacaagacct gattgaaaaa gaacagtgtc cttacaccag 240
tgaagatgag tgcatcaaag actttgatga aaaggagtat caggagtga atgagctgca 300
gaagaagtta aatattaaca tttccctgga ccataagaga ctttgatta aggttttggg 360
aattagcaga gatgtgatgc aggctagaga tgaaattgag gcgatgatca agagagttcg 420
attggccaaa gaacaggaat cccgggcaga ttgtatcagt gagtttatag aatggcagta 480
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caggagagaa aagaaaaaaaa cagttgatgt caaaattaat catcggcact acacagtga 600
cttgaacaca tacactgcca cagacacaaa nggccacagt ttatctgttc agcgcctcnc 660
gaaatcccaa gttgacatcc ctgcccactg ggagtgatat gaancaccaa anttctgtgt 720
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<210> 2033

<211> 747

<212> DNA

<213> Homo sapiens

<400> 2033

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aaaaaaaaaa acatcaactc tgacctgcca atcatcatat cgattgagaa ccactgttca 60
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actaaattct tatttgagac tgatttctca gatgatccaa tgcttccttc acctgaccaa 180
ctcagaaaga aagttcttct taaaaacaag aagctaaaag cccatcagac gccagtggat 240
atcttaaagc aaaaggctca tcagttagca tctatgcaag tgcaggctta taatggtggg 300
gatgccaacc cccgacctgc caataatgag gaagaggaag atgaggagga cgaatatgat 360

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tatgactatg aatccctttc tgatgacaac attctggaag acagacctga aaataaatca 420
 tgtaatgaca agcttcagtt tgaatataat gaagaaatcc ccnagaggat aaagaaagca 480
 gataactctg cttgcaacaa aggaaagggtt tatgatatgg aactgggaga agaattttat 540
 cttgatcaga ataaaaagga aagcagacag attgcaccag aagctttctg accttggtat 600
 ctattgtcaa gcagtaaaat ttccaggact gtcaactcta aatgcatctg gctctagccg 660
 aaggaaaaga aaggaaaagc cggaantcct ttttggcaac catctgggcn gaatganccc 720
 ngggganaca gcacccctta acaaaac 747

<210> 2034

<211> 550

<212> DNA

<213> Homo sapiens

<400> 2034

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 cagccggccg agatggcggc cgagctgggc atgagggggcc ccaagaaggg cagcgtgctg 180
 aagcggcggc tggatgaagc ggtggatgaat ttctctttct actttcggac agacgaggcc 240
 gagcccgtcg gagccctgct gctggagcgc tgcagagtcg tccgggaaga gcccggcacc 300
 ttctccatca gttcattga ggaccctgag aggaagtatc actttgagtg cagcagcgag 360
 gagcagtgctc aggagtggat ggaggctctg cgtcgggcca gctacgantt catgcggaga 420
 agcctcatct tctacaggaa cgaaatccgg aangtgacgg gcaaggaccc cctggaacag 480
 ttccggcatat ccgaagaagc cangttccan ctgaatggct tgcangcgtn agcgcagggc 540
 acggttggtca 550

<210> 2035

<211> 736

<212> DNA

<213> Homo sapiens

<400> 2035

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 gaaatTTTT gtttcctgta atgttcagag tgttgatgag aagaccctat actcagaggc 180
 gacaagctta tttataaagc tgaatcctgc taaaagtctg acataaagag ctgctgggtga 240
 actccatctc attctcgccc ctccagaaga agcagttgtc ccccaaatac tctgctccct 300
 cactgctgaa tccctgtagg gagaagcctg ccaacagtga ctttccgaaa cagccttctg 360
 aatacaaaga ggattcagtt tccatcttct caacttgta acacagaaac acttcctgcg 420
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 ggaggccgan gcaggcggga ttgcctgagc tcaggagttc aagatcagtc tgggcaacac 540
 gatgaaaact ccgtctctac taaaatacaa aaaattatcc aggcatgggtg gcgtacgcct 600
 gtagtcccag ctactcagga ngctgaagca gganaattgc ttgaaccag gaaggaanag 660
 gtgcagtga gccaagaaca tgccacatca ctccaacctg ggcaacagaa caagaaacca 720
 tctcnaacaa acnaac 736

<210> 2036

<211> 721

<212> DNA

<213> Homo sapiens

<400> 2036

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 aaaagcagcc agtctgcaca aatccactct ctattcttaa ggttgatgatg aagcagtga 420

agaacatgca ggagcgcgatg ctgtcccagc tggctgctgc tgagagcagg caccgaaagg 480
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 atcccaagtg aaaaagtttg aaaaagaaca gaanaanctc tctattccgc tggaaaaaga 660
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<210> 2037

<211> 781

<212> DNA

<213> Homo sapiens

<400> 2037

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 gattttccat tgctgtcaca agaacagaaa gcacacatta ggagaaaacc ttacgaatgt 180
 aatgagcagg gcaaagtctt cagagtgtct tcaagccttc ctaatcatca agtaatccac 240
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 tccttacaaa tgtaatgagt gtggcaaggt cttcagtcna attacatacc ttgtacgaca 480
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 tgtaataaaa tgtggcaaaa aatttagtgg gcattcaagc ctcaccaccc atctgttaat 660
 ccacactgga aaaaaacctt acaaattgta agaattgtgac aaagctttta ggcacaantt 720
 ctccctgaca gttcntcnaa aaaatcttaa tgggaaaaaa accttataa tntcctgaaa 780
 t 781

<210> 2038

<211> 780

<212> DNA

<213> Homo sapiens

<400> 2038

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ttgcccagca agtgtgtggc tatcgactgt gagatggtgg gcacgggacc ccgagggcgg 60
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<210> 2039

<211> 629

<212> DNA

<213> Homo sapiens

<400> 2039

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agcggcgggc aggccgggca tggcgtccat ggcggcggcg atcgcggtt cgcgctcggc 60
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gtcgtgagc cccatggcca ggaagatcat gcaggacaag gagaagatcc gcgagaagta 180
cgggcccag tgggcgcggc tgccgcccgc gcagcaggac gagatcatcg accggtgcct 240

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 tatctccgcc ctatccatcc aggagccgag caacggcacc gccgccagcg agcccagacc 480
 actgtccaaa gcttcccagg gctcccaggc cctcaagtcc tcccaaggca gcaggctctc 540
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<210> 2040

<211> 524

<212> DNA

<213> Homo sapiens

<400> 2040

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 ncgtgagtgg cgggtgtctgg cagganctgc gtggcaggga nggcgtccat ggctgcance 180
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<210> 2041

<211> 855

<212> DNA

<213> Homo sapiens

<400> 2041

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cgcacctgga tgacagcagg ggcgccgggg tcctctcgac gccagagaga aatctcatca	180
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gacaaaaact aaactgaaat ttaaaatggt cttcggggga gaaggagct tgacttacac	300
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ttgctgttca acaaaaaaca tatcagggga caaagcatgt aacttgatga tcttcgacac	420
tcgaaaaaca gctagacaac ccaactgcta cctatcttcc tgtcccaacg angaagcctg	480
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tcacaagcat cactccccta neccatcacc acacagatta ttccaagccc accgatatct	660
catgganana cacactttct canaaatttg gattctcaag atccttggan aaactattta	720
agatngatga aacaattgcc actccttgct tataaggaaa aaggccatcc tccaaattcc	780
caaattttcc tctgatcaaa aaattactcc tctgctgcct nnaaaaaatnt taatnccctc	840
cccactacgg tggcn	855

<210> 2042

<211> 577

<212> DNA

<213> Homo sapiens

<400> 2042

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ctcatagga ggacgaggag gtcataaaca aggaggcggg agaggtggac gtggtggcta	180
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ccaaacatct tcttcatata caggaagtgg ataccagggt ggtggctacc agcaggacaa 420
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tcgtggaagc cgaagtgggtc gtgcangcca nggangagct ggggangaag aaggaccaga 540
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<210> 2043

<211> 836

<212> DNA

<213> Homo sapiens

<400> 2043

gagtctctga ggaaggaatg tgatttggca agtcagggtg ctaagcatgg gtgggaactc 60
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ttttttccat tttatgggga atttaaaac cattcttgta tcagaaggtg aattaggcgc 180
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ccagtttggc ctctgtccc gaaaagacc taataactag gcagagtgtt gtcctgcttt 360
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tgataagga atcagtangg tgggctgttt tccctttggg tgaatcctac tnagaagtga 720
caagggaag ggactcccaa gcccctttc aaggtaaact tatcaaagga gccccctgaa 780
aaccgggtaa gaagggaac tngccaatnc ccttgggggg ggantaactc aaaaag 836

<210> 2044

<211> 749

<212> DNA

<213> Homo sapiens

<400> 2044

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gatgcagatg gtatttgttc tccaggtgag aaagtagaaa acaaacaagt gcttgtaa at 180
aagtccatgc ccacagtgc tcagattcct ttggaaggaa gtaatgtacc acagcaacca 240
cagtacaaag atgtacccat aacctacaaa ggagcaacag actcatatat tgaaaaagtg 300
atgatatctt caaatgctga agatgctttt ctgatcaaaa tgctgctgag acagacaagg 360
cgtccagaaa ttggagacaa attcagcagt cgtcatgggc aaaaagggtg ttgtggcttg 420
atcgtcccc aggaagacat gccattttgt gattctggca tctgtccgga catcatcatg 480
aaccacacg gcttcccatc acgaatgacg gtggggaagc tcattgagct gctggctggc 540
aaggccggtg tgctggacgg cagattccac tacggcactg cgtttgagg cagtaaagtg 600
aangatgtg gtgnggacct cgtttgccat gggtataact acttggggaa agactatgtt 660
acatccggca tcacangtgg agcccttata agcatacatc tattttgggc cccgtgtact 720
atcagaagct gnaacacatg gngctagat 749

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<210> 2045

<211> 839

<212> DNA

<213> Homo sapiens

<400> 2045

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cgttttccac cgatggaatc cttacctcag taaaccaccg aagccctctt caagcagtag 180
aacctatctc aacgtccgtc cacaaaaagc agagctttgt gctttcacc ttttctactc 240
aagaagaaat gtcaggtttg tccttcaca tcgcttcctt ggatgagagt ggggttctca 300
atgtatgggt gggtgttgaa ttaccaaagg cagacatcgc aggttcaata agtgatttag 360

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gtctgatgcc tggagggagg gtcaagctgg tacatagtgc tctgatccag ttgggtgaca 420
 gtctttctca taaaggtaat gaattttggg gcactacaca aacactgaat gttaaatttc 480
 tgccttcaga tcctaatacac tttattattg gcacagacat gggctctcata agccatggca 540
 caagacaaga tttgagagtg gctcccanac tattcaaacc tcagcaacat ggtataagac 600
 cagtgaaggt taatgtcatt gatTTTTTcac catttgaga accaatattt ttgggcccggc 660
 tgttcggacg gaagcatcaa ggctgcaaca actgagctcc gcgtttccgc tcctgcagtg 720
 ggacaacagc acggacagcc atgcgggtcac cggccctgca attggncccc caaaccaagg 780
 cctggccccgt tgtttccctg gtgcaanggc caacacattc caaacaatcc tanaatcct 839

<210> 2046

<211> 773

<212> DNA

<213> Homo sapiens

<400> 2046

TTTTTgtag agatgagctc tcactatgtc acccaggttc gtctcaaact cctgaaccct 60
 agtaattctc ctatctcagc ctcccaaagt gctagggtta cagacatgag ccactgtgcc 120
 tgtctagact tgtactttca actgtccatt tctccctgtc tgtcccatgg gcactcatga 180
 aaaaacagaa tgctcccaac tttattcatc ttccaagcct gtagctcttg gtatactcac 240
 tgttgcaagt cagaagcttg atttcatcat tgatgttttt ctacagtttc acatctcact 300
 catcaccaag tcatgttggg gttaatttct gattaaccct tgaatttacc gtcttctcat 360
 cctctgtaca aaagcctcaa gtgagggtca aattcaacat taccctgac tagacagccc 420
 ccattctcaa tccacccttt tccaagttga ttgcccaagg acttctaaca ataaactctc 480
 ttttgcacca cagacttctt tgaaaatata catgctgttg accctctctg tagaaaaccg 540
 cacacataaa acttaccac agatttcatt ggttcttggg ttctcccgaa gcctatccat 600
 ggtttataga ttaagaattg atgaggtagc tgggcacagt ggctcacacc tacgatcaca 660
 gcacttcggg aaggctgaag caagcanatc acttgaggtc aaggagtgtg agacaagcct 720
 gggccaacaa tggggaaacc ctgtcctcaa ctaaaaattc aaanangtaa cca 773

<210> 2047

<211> 771

<212> DNA

<213> Homo sapiens

<400> 2047

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tattagaagt tggatttctg gtgaaagggg ttgagtgttt ttgaggcttt ggcacagaat 60
accagctgg tcccagaaag gtggttccca tttacctgcc cgaaggtaat tcacccttac 120
tgatactgag tactgttttc taaaagaaca ttaaaaattg gataggttaa aaacaggtga 180
atacattttt ttagttgcat ttttttggtt acccgtgaga gtgaacatgt tgccatgtgt 240
ttgctgacct cctaaatggg ctatttgctc ctacctttgt accccaaaag tctgctctca 300
agatggtagc cagaatgac ctttttgaga cataagtcaa aatttcactc ttctccttaa 360
agctctgcaa tggttctcag gttaaaggcc aaagtctgt tcaaggcctc cagggtcctc 420
accatttggg cccttgcctt ttctgttcta gccaaacttg ctttctcctg cccctccgcc 480
gcaccatggc aatttcccct gctctgtgtg gtcaactacc tgaatctgtt caaagctttg 540
ctcaaatgtc tccttcctga tgagacctcc ccagcccctg agtccccat gcccactcc 600
tgatgcctt acttaaacct tctttttctt ttttgccaag tagtacttat caccgtctaa 660
aatacttcat aatttacttg tttantgggt gccctctcc aatagaatgg tagctcctg 720
ggggcaggga cctttggcct ttgncctgtt caactgctgg ggtcccaagg t 771
```

<210> 2048

<211> 752

<212> DNA

<213> Homo sapiens

<400> 2048

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aagatggccg ccccggtcgg ggctgttttc agatgcttca agtgttgtga acagagactt 60
gtttggatta tgcatttctc agctagacta aataaatgct agcaatggat acgtgcaaac 120
atgttgggca gctgcagctt gctcaagacc attccagcct caaccctcag aaatggcact 180
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gtgtggactg caacacgacc gagtccattt gggcttgcct tagctgctcc catgttgcct 240
 gtggaagata tattgaagag catgcactca agcactttca agaaagcagt catcctgttg 300
 cattggaggt gaatgagatg tacgtttttt gttacctttg tgatgattat gttctgaatg 360
 ataacgcaac tggagacctg aagt tactac gacgtacatt aagtgccatc aaaagtcaaa 420
 attatcactg cacaactcgt agtgggaggt ttttacggtc cctgggtaca ggtgatgatt 480
 cttatttctt acatgacggt gcccaatctc tgcttcaaag tgaagatcaa ctgtatactg 540
 ctctttggca caggagaagg atactaatgg gtaaaatctt tcgaacatgg tttgaacaat 600
 caccattgg nagaaanaag caagaaagaa ccatttcaag gaaaaaaata gtagtaaaaa 660
 ngagaagtaa agaaaaagac ggcagggaat tgggagtatc aagttaaagc anaattggga 720
 aaagtangcc tccaagaaag agttttacgtt ta 752

<210> 2049

<211> 666

<212> DNA

<213> Homo sapiens

<400> 2049

ctagtgttaa attgaaaaat atcaataatt aagagtattt tacccaagga gtcctctcat 60
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 catactgtct acacatcaga ccatagttgc ttaggaaacc tttaaaaatt ccagttaagc 180
 aatgttgaaa tcagtttgca tctcttcaaa agaaacctct caggttagct ttgaactgcc 240
 tcttctgag atgactagga cagtcggtac ccagaggcca cccagaagcc ctcatatgta 300
 catacacaga tgccagtcag ctcttgggtg tgcgccaggc gccccgctc tagctcactg 360
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 agtgagcttt actcacgtgg cccttgcttc atccagcaca gctctcaggt gggcactgca 480
 gggacactgg tgtcttccat gtagcgtccc agctttgggc tcctgtaaca gacctctttt 540
 tggttatgga tggctcacia aatagggcc ccaatgctat tttttttttt ttaagtttgn 600
 ttaattantt gttaaagatt gtctaaaggg caaaggnaat tgcgaaaatc aagtccgtca 660
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<210> 2050

<211> 692

<212> DNA

<213> Homo sapiens

<400> 2050

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ttttgatgag cgggatcttc aatattcatg ttattttctc ctttggtctt atatgattgt 60
tacctttatg aagctttagt gattacaaag cacttttttt gtccattttt acctgagctt 120
tgtaaactct gatttgcagg atggctggct gtggtgaaat tgatcattca ataaacatgc 180
ttcctacaaa caggaaagcg aacgagtcct gttctaatac tgcaccttct ttaaccgtcc 240
ctgaatgtgc catttgtctg caaacatgtg ttcattccagt cagtctgccc tgtaagcacg 300
ttttctgcta tctatgtgta aaaggagctt catggccttg aaagcgggtg gctcttcgtc 360
gacaagaaat tcccaggatg ttccttgaca agccaacctt gttgtcacca gaagaactca 420
aggcagcaag tagaggaaat ggtgaatatg catggtatta tgaaggaaga aatgggtggt 480
ggcagtacga tgagcgcact agtagagagc tggaagatgc tttttccaaa ggtaaaaaga 540
acactgaaat gttaattgct gggtttctgt atgtcgtga tcttgaaaac atgggtcaat 600
ataggagaaa tgaacatggg cgtcncaagg aagattaagc caagatataa taggatattc 660
caaaagnaaa ggganttaac tgggccttaa gg 692

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<210> 2051

<211> 302

<212> DNA

<213> Homo sapiens

<400> 2051

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tagagggccca ccttagcacc cgccgcgtcg cagctccggg actggccccg gccgcgacgc 60
cgccgcgatg ggcaacgccg ccgccgccaa gaagggcagc gagcaggaga gcgtgaaaga 120
gttcctagcc aaagccaagg aagatttcct gaaaaaatgg gagaccctt ctcagaatac 180

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agcccagttg gatcagtttg atagaatcaa gacccttggn accggctcct ttgggcgagt 240
 gatgctggtg aagcacaggg agagtgggaa ccactacgcc angaagatct tagacaggca 300
 gn 302

<210> 2052

<211> 653

<212> DNA

<213> Homo sapiens

<400> 2052

cctgctgacc accgacgacg ccatggtctc catcgacccc accatgcccg cgaattcaga 60
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 aatccagagc gtgctggcgc aggttgcaga gcagttctca agagcattca aaatcaatga 180
 actgaaagct gaagttgcaa atcacttggc tgtcctagag aaacgcgtgg aattggaagg 240
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 tgtcacctc aagaggtggc tgttctgtgt ccacgacaac tacaggaaac aacccttcca 600
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<210> 2053

<211> 558

<212> DNA

<213> Homo sapiens

<400> 2053

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 tagattggta acgtttctga tggacaatta ccaggaaatt ctgaaagtcc ctttggcctt 180
 gcagacctct atagaggagc gtgtggctca tctacgaaga gtccagataa aatacccagg 240
 agctgatatg gatatacatt tatctgctcc atcattttgc cgtcaaatta gtccagagga 300
 atttgaatat caaagatcat atggctctca ggaacctctg gcagccttgt tggnggaagt 360
 cataacagat gccagactct ccaacatnga gaaaaggaag agactgaanc agtttcagaa 420
 atcctatcct gaagtctatc aagaacgatt tcctacacca gaaagtgcag cacttctgtt 480
 tcctgaaaaa cccangccga aancacagct gctaattgtg gcactaaaga agcctttcga 540
 accatttcaa gagnaacta 558

<210> 2054

<211> 738

<212> DNA

<213> Homo sapiens

<400> 2054

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 aatcgcttcc tccccgcag gccagacgga tgaccaggc cccctcgatg gccctgacct 180
 ccaggccagc cactcagagc tccaggtgcc caccctggc agagccggcc tactgaacac 240
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 aatggcagac atcctgctgc gggaggagga cctcaagttc gcctcgacca tgggtccacgc 480
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 aaaccagtc aacaagggtg cctcttggtt cctcaaccaa gaactaccgg gaacgcctat 660
 gacctatcc aaaaatttgg ggacctggag ggcaacgtgg acttcctccc aaaaggtgga 720
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<210> 2055

<211> 670

<212> DNA

<213> Homo sapiens

<400> 2055

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gagtgcgcag tgggcgggca cgcggtggagg acttctacac ggtggagact gtgagctcgg 360
gcactgactg ccgctgctcc tgtaccgcac ctccctcctc tctcaacccc tgtgagaacg 420
agtggaagat ggagaaactc aaaaagcagg cgcccagct cctcaagagc atcaaggcca 480
acctgagccg ggagaatgag gtggtgaagg acagcgtgcg ccacctcagt gagcanttga 540
ggcactattg agaatcactc tgccatcatg ctgggcatca agaaggagct gtcccgcctg 600
ggcctccanc tgctgcaaaa ggatgccgcc gccgccctg cnaccctgca acgggcaact 660
gtancaaagg 670
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<210> 2056

<211> 615

<212> DNA

<213> Homo sapiens

<400> 2056

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cctgaggagt cgcggcggga gctgctggag cagatagcag actgctgcat gcgccagggc 120
agctaccacc tggccaccaa gaagtacacg caggccggca acaagctgaa ggccatgagg 180
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gcgctgctca aatccggaga cacggagaaa atcacgttct tcgcgagcgt gtccaggcag 240
aaggaaatct acatcatggc tgctaactac ctgcagtccc tggactggcg gaaggagccg 300
gagatcatga agaacatcat cggctttctac accaaggggc gggccctgga cctcctggct 360
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cacggggcgc tgacttgagg cctacaagtg cctggccaag gccaaggcca agagccccct 480
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ctcctggagg aanca 615

<210> 2057

<211> 724

<212> DNA

<213> Homo sapiens

<400> 2057

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aggccggggc atcatccact tcgccttctt cctgagtac agcattctcc tggtagccac 180
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aagcaggatc agaccagcc agcagagatg gagagtgact ctgttggcag aaggcaggcg 540
aggataagct aacgatgctg ctgtggcctc tatgcactca gcaagagcgg gacgcctgtg 600
ctgggccggg caccaaggat ggtgctgagt cgggcaaaag gntcctttc aaggagtcca 660
aaagtgaaca agatgagaan ggctggggcc ctgganggt caagaagccc caatttatgt 720
tcaa 724

<210> 2058

<211> 791

<212> DNA

<213> Homo sapiens

<400> 2058

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taaaaaaccc gctccagcac ccccgaaacc gggcaaccca cctcctggcc accccggggg 60
ccagagttct tcaggaacat ctcagcatcc acccagtctg tcaccaaagc caccacccg 120
aagccccctct cctcccaccc agcacacggg ccagcctcca ggccagccct ccgccccctc 180
ccagctctca gcaccccgga ggtactccag cagcttgtct ccaatccaag ctcccaatca 240
cccaccgccg cagcccccta cgcaggccac gccactgatg cacaccaaac ccaatagcca 300
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ccctccccag actccaacgc cccccagtac tccgccccta ggaaaacaga accccagtct 420
gccagctcct cagaccctgg cagggggtaa ccctgaaact gcacagccac atgctggaac 480
cttaccgaga ccgagaccag taccaaagcc aaggaaccgg ccagcgtgc cccaccccc 540
ccaacctcct ggtgtccact cagctgggga cagcaagcct caccaacaca gcaccaacag 600
cttccaagat agtaacaggg tticagaacc gcatcgcagc atctttcctg aaatgcactc 660
agactcagcc agcaaagacg ttgcctgggc cgcacctgc tggatataga caattgatac 720
cggagaagca ctgcccctgt tgaaggaaaa ggcccttttc cangcccttc caacaanttt 780
ccaaccctgg n 791

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<210> 2059

<211> 639

<212> DNA

<213> Homo sapiens

<400> 2059

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angctcttag gctccacccg gccctgaaca gctggcttgt cttggngtct cttgtgccac 60
cctccccagg aacagnggct tccttgtatt ggccgagcgc atgatgggcc agctctgtgc 120

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taaacggagt cttgctctgt tgcccaggct ggagtgaat ggtgcgatct cggctcactg 180
 cagtctccgc ctcttgggtt caggctcatc cacctgcaga catggggcgc agaaagtcaa 240
 aacgaaagcc gcctcccaag aagaagatga caggcaccct cgagacccag ttcacctgcc 300
 ccttctgcaa ccacgagaaa tcctgtgatg tgaaaatgga ccgtgcccgc aacaccggag 360
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 gaggacccgc cccctgagca gccccgcgta ctgtggatcc agctgttcgg ttctgggtcca 540
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 gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt annggggtgt 639

<210> 2060

<211> 744

<212> DNA

<213> Homo sapiens

<400> 2060

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 cagtatgaaa gcatggacca catccaagct gagctgtcgg ctagagtcac ggagctggcc 120
 ccagctggga tgcccacca gcagcaggtc ccctttctgt ctgtgggtgg ggacattggg 180
 gtccggaccg ttcagcacca agactgcagc cccttgagcg gtgactatgt cattgaggat 240
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 ggcgggggca gcctccccct ctttgtccac gatcaatttc caaagtcctg cattgatgct 600
 gtggagatcg atccctccat gttggaagtg gccaccaggt ggttttggctt ctcccagagt 660
 gaccgaatga aggtccacat tgcagatggc ctggactata tcgccagctt ggcaggagga 720
 ggagaacacg gccttgcttc naaa 744

<210> 2061

<211> 805

<212> DNA

<213> Homo sapiens

<400> 2061

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annaatatg cccagatgg caaactttgt atacaacatg tacatgcatt tgatacagac   60
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ggaagttcaa aatcaagaaa cagaattgga aacagaagaa gaggccatga ctgttcaagc  180
tgacatcata cccagtccaa cagacaccag ctgccgtcaa gaaactccag cttttcaaac  240
tgacaccacc cccagtgaga caggagccac ttccactcca gaagccatcc ttgctttatc  300
tgagaccacc cctactgtgg taggagctgt atctgcaccg gcagaagcta acacacctca  360
ggatgccaca tctgccccag aagagaccaa gtagccaaac ttagtcctt ctaaaggagg  420
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atatattttt ttaaattatg tgtatgaaca attctagttt catttggtca atcagaagag  600
caaataacca ttcctttcat gttttgatca ctgagtgtgt ctgtaatcat acctacatta  660
aaatcatttt ctatgaatat ataatatata cttcacattt ttagtgaact tctctaaaga  720
agaggacaga atatactgga ctttaaccacg aatacccttg agtgtccaaa ttgggaagga  780
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<210> 2062

<211> 805

<212> DNA

<213> Homo sapiens

<400> 2062

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actgggctgt gcggagaaat cnacttacta aatnagagat taagaaagaa tactatgcgt   60

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taactaaatt taatgttcac aaaaccagat ttggcttaac tgangcagga gatctgtctg 120
 ctgaagacat gaagaaaatc cgccatctct ctctgattga attgactgcc ttttttgatg 180
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 aaggaatttt tcgactttca ggatgtactg ctaaagtcaa gcaataccgt gaagaacttg 420
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 ctgccttcat cagtcta atg gaaagagggc ctcacgtcaa agtacagttt caagccttac 600
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 tcttcaataa agtgattgcc aatgaatcaa aaaaccgaat gagtctgtgg aacatttcta 720
 cagtgatggc accgaacctt ttcttcagta gaagcaaaca ctctgattat gaagaattac 780
 tggtagcaaa cactgggggc cacat 805

<210> 2063

<211> 599

<212> DNA

<213> Homo sapiens

<400> 2063

cagatagtag cgatagtgag tatatcagtg atgatgagca gaagtctaag aacgagccag 60
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 agcccaagcc tacaaacca gtggagatta aagaggagct gaaaagcacg tcaccagcca 180
 gcgagaaggc agaccctgga gcagtcaagg acaaggccag ccctgagcct gagaaggact 240
 tttccgaaaa ggcaaacct tcacctcacc ccataaagga taaactgaag ggaaaagatg 300
 agacggattc cccaacagtc catttgggcc tggactctga ttcagagagc gaacttgtca 360
 tagatttagg agaagaccat tctgggcggg agggtcgaaa aaataagaag gaacccaaag 420
 aaccatctcc caaacaggat ggcatgtggt agttgtaggt aaaactccac catccacgac 480
 ggtgggcagc cattctcccc cggaacacc ggtgctcacc cgctcttncg cccaaacttc 540

cgcggtggc gccacagcca ccaccagcac gtntccacg gtcaccgtca cggncggg 599

<210> 2064

<211> 791

<212> DNA

<213> Homo sapiens

<400> 2064

gcgtgccggg tgtcatggcg gcctgcaggt actgctgctc gtgcctccgg ctccggcccc 60
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 gagcactatg gagtagcgca gggctctcgag ctgtggccgt ggacttaggc aacaggaaat 180
 tagaaatata ttctggaaag ctggccagat ttgcagatgg ctctgctgta gtacagtcag 240
 gtgacactgc agtaatggc acagcgggtca gtaaaacaaa accttcccc tcccagttta 300
 tgccttttgt ggttgactac agacaaaaag ctgctgcagc aggtagaatt cccacaaact 360
 atctgagaag agaggtttgt acttctgata aagaaattct aacaagtcga ataatagatc 420
 gttcaattag accgctcttt ccagctggct acttctatga tacacagggt ctgtgtaatc 480
 tgtttagcagt agatggtgta aatgagcctg atgtcctagc aattaatggc gcttccgtag 540
 ccctctcatt atcagatatt ccttgnaatg gacctgttg ggcagtacga ataggaataa 600
 ttgatggaga atatgttgt aacccaacaa gaaaagaaat gtcttctagt actttaaat 660
 tantggttgc tggagcacct aaaaagtcag attggcatgn tggaagcctc tgcagagAAC 720
 attttacagc aggacttttg ncatgctatc aaagggggag tgaaatatcc caacaaataa 780
 ttnaggcat t 791

<210> 2065

<211> 650

<212> DNA

<213> Homo sapiens

<400> 2065

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 gtccagattc ttcctttcct agaatgtcag ggctagggaa gtgctgagac cctctggctc 180
 acccccaccc cctaatttta tgaaagacaa ggataaagtc ccagggaac aatgtgttca 240
 aggctacca gtgacgcatg acccataca ggctctataa ggatgttaca ctcggtcatc 300
 tctacatgcc tggtagctag cacaggatcc tggtagctg gaggtgcttg agtaactgtg 360
 aatacaggaa catagtcatt taatagcaaa gctagagccc tgtcccccaa ggccagctta 420
 ctgcctcccc tccccctcac gcctggcatc ccacctggat gtatgcatgg ttggtcggat 480
 gaaactcctc cccaacagga ttaggacact cgccctcaca gcgataggcg ttgtactgct 540
 tggggtagat gatccaggag ccccatnaga tcaggttgaa gtccacctgg aacttgacct 600
 tccgacacag ttgacttctg tctggcaagt gatgncgacg gtgcctnttg 650

<210> 2066

<211> 563

<212> DNA

<213> Homo sapiens

<400> 2066

agcgcgcggc tgatacccg gactgggctg cggcggttag tcctctccc gcccgcgtcg 60
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 atgggaggac gaagaggtcc caacaggaca tcttactgtc gaaatccgct ctgtgagccg 180
 ggatcctcgg ggggctctag tggaagccac acttccagt caccggtgac cagtgttcgt 240
 tccgcacca ggagcagttc tggaacaggc ctctccagcc ctctctggc caccctaaact 300
 gttgtgcctc tacagcactg caagatcccc gagctgccag tccaggccag cattctgttt 360
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 aagacagtgt ggtggtatcc accttccac ccacctccc acacctnct gaacttccat 480
 ctgatcgact tcaacttgct gatggtgacc accatcgctc tgggccgncg nttcattggg 540
 tccatcgtga aggaggccta tca 563

<210> 2067

<211> 782

<212> DNA

<213> Homo sapiens

<400> 2067

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tgagaacatt aagaaaagat tatgctcggc acagtaaaga ggaagaaatg gatgatatgg 60
atagagacct aggagatgaa tatggatgga aacagggtgca tggagatgta tttagaccat 120
caagtcaccc actgatattt tctctctga ttggttctgg atgtcagata tttgctgtgt 180
ctctcatcgt tattattgtt gcaatgatag aagatttata tactgagagg ggatcaatgc 240
tcagtacagc catatttgtc tatgctgcta cgtctccagt gaatggttat tttggaggaa 300
gtctgtatgc tagacaagga ggaaggagat ggataaagca gatgtttatt ggggcattcc 360
ttatcccagc tatggtgtgt ggcactgcct tcttcatcaa tttcatagcc atttattacc 420
atgcttcaag agccattcct tttggaacaa tgggtggccgt ttgttgcata tgtttttttg 480
ntattcttcc tctaaatctt gttggtacaa tacttggccg aaatctgtca ggtcagccca 540
actttccttg tcgtgtcaat gctgtgcctc gtcctatacc ggagaaaaaa tggttcatgg 600
agcctgcggt tattggttgc ctgggtggaa tttaccttt tggntcaatc tttattgaaa 660
tgtatttcat cttcacgtct ttctggccat ataaagatct attatggcta tgggcttcat 720
gatgctggtg ctgggtatcc tgngcattgg gactgnctgn gtgactattg ggtgcacata 780
tt 782

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<210> 2068

<211> 786

<212> DNA

<213> Homo sapiens

<400> 2068

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aaaaaaaaaa aaacatatca gaatcacact gtggtttttc tgggatcaga gaagggaatc 60
atcttgaagt ttttggccag aataggaaat agtgggtttc taaatgacag ccttttctgt 120

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gaggagatga gtgtttacaa ctctgaaaaa tgcagctatg atggagtcga agacaaaagg 180
 atcatgggca tgcagctgga cagagcaagc agctctctgt atgttgcgtt ctctacctgt 240
 gtgataaagg ttccccttgg ccggtgtgaa cgacatggga agtgtaaaaa aacctgtatt 300
 gcctccagag acccatattg tggatggata aaggaagggtg gtgcctgcag ccatttatca 360
 cccaacagca gactgacttt tgagcaggac atagagcgtg gcaatacaga tggctctgggg 420
 gactgtcaca attcctttgt ggcactgaat ggagtgattc gggaaagtta cctcaaaggc 480
 cacgaccagc tggttcccgt caccctcttg gccattgcag tcctcctggc tttcgtcatg 540
 ggggccgtct tctcgggcat caccgtctac tgcgtctgtg atcatcggcg caaagacgtg 600
 gctgtggtgc ancgcaagga gaaggagctc acccactcgc gccggggctc catgagcagc 660
 gtcaccaagc tnagcggcct ctttggggac actcaatcca aagacccaaa gccggangcc 720
 atcctacgcc acttcatgca caacggcaaa gctcgccact cccggcaaca cggccaagat 780
 gctnat 786

<210> 2069

<211> 770

<212> DNA

<213> Homo sapiens

<400> 2069

cacattctgg atctcagctg ctcttgaagg acagtgactt gttaccaccg caacagcaga 60
 gcctgccatc cccaacagat caccagttgt ccctgacatc gtgccctacc ttgtctccct 120
 ttgtggtctc cttaatgccc atctcgttgg ccttggttcg gctagtggta tggaggggtg 180
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 gttctggaat gatgacgact cggagggaga taatgaatca gaggaatttc tctatggcgt 300
 tcaggggaac tgtgcagccg acctgtatcg acaccacag cttgatgcag acattgaagc 360
 cgtgaaggag atctacagtg agaactctgt atccatcaga gaatatggaa ctatcgatga 420
 cgtggacatt gacctcaca tcaacatcag ctccctcgat gaggaagtct ctacagcctg 480
 gaaggctcctn cggacagaac ctattgtgtt gaggctgcga ttttctctct cccagtacct 540
 agatggacca gaaccatcca ttgaggtttt ccagccatca aataaggaag gatttgggct 600

gggtcttcag ttgaaaaaga tcctgggtat gtttacatcc caacaatgga aacatctgag 660
 caatgatttc ttgaagaccc agcaggagaa gaggcacagt tggttcaagg caagtggtag 720
 catcaagaag ttncgagctg gctcagcatn ttttnacat tcccaagtct 770

<210> 2070

<211> 784

<212> DNA

<213> Homo sapiens

<400> 2070

atttaaattg ttcaattgat ggcattcgcc acatgtttac ccctaagctt gaaataatgc 60
 tggagcccaa ggtctggaga gaagctgcta ctcaagtgtt ctttgcctta ggtctgggat 120
 ttggtgggtg cattgccttt tcaagctaca acaagagaga caacaactgc cactttgatg 180
 ctgtcctggg gtccttcac aattttttca cttctgtcct ggcaacattg gtggtgtttg 240
 cagttctggg cttcaaagca aatgtcataa atgagaaatg cattacacaa aattcagaga 300
 cgatcatgaa atttttgaaa atggggaaca ttagtcagga tattattccc catcatatca 360
 acctttcaac tgttactgta gaagactatc atttagttta tgacatcatt caaaaagtga 420
 aagaagaaga gtttctgct cttcatctca attcctgtaa aattgaagaa gagctaaata 480
 aagctgttca ggggaccggc ttagctttta ttgcctttac agaagcgatg acacattttc 540
 ctgcatctcc cttctgggtc gtgatgtttt tcctcatgct ggtcaatcta ggccttggca 600
 gtatgttttg aaccattgaa gggattgtca cgcctattgt ggacactttc aaagtgagga 660
 aagaaattct tactggtatc tgggtggcttc tggcattttg nattggcctg atattgngca 720
 acgctctgga aattactttg gtacaatggt tgatgattat tctgctacac tgnctctgct 780
 aaat 784

<210> 2071

<211> 788

<212> DNA

<213> Homo sapiens

<400> 2071

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tgcaagtatg acttttgctg gatttgcctt gaagagtgga aaaaacatag ttcgtccact 60
ggaggttatt acagatgtac tcgctatgaa gtcattcaac acgtggagga gcaatccaag 120
gaaatgactg tggaggctga gaaaaaacac aaacgatttc aggaacttga cagatttatg 180
cactattata caagatttaa aaacatgag catagttatc agctagaaca acgccttctt 240
aaaacagcca aagaaaagat ggagcaattg agcagagctc tcaaagaaac tgaaggaggc 300
tgtccagata ccactttcat tgaagatgca gttcatgtgc tcttaaaaac tcggcgcatt 360
ctcaagtgtt cttatccata tggatttttc ttggaaccta aaagcacaaa gaaagaaatt 420
tttgaactaa tgcaaacaga cctagaaatg gtcactgaag accttgccca gaaagtcaat 480
aggccttacc ttcgcacacc ccgccacaag atcatcaaag cagcatgcct tgtacagcag 540
aagaggcaag aattcctggc atctgtggct cggggagtag ctctgcaga ctcaccagaa 600
gctccaaggc gcagctttgc tgggtggaaca tgggattggg aatatttagg atttgcata 660
ccagaggaat atgctgaatt tcagtatcgg aggaggcaca gacaacgtcg tcgaggagat 720
gttcacaggt ctactcagta atccttcaga ccctgttgag ccaagtgaaa gcactttaga 780
ttattccc 788

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<210> 2072

<211> 762

<212> DNA

<213> Homo sapiens

<400> 2072

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nactttcttc tgatgaagag atgaaaatgg cggagatgcg accancatta attgaaacct 60
ctattaacca gccaaaagtc gtagcactta gtaataacaa aaaagatgat acaaaggaaa 120
cagattcttt atcagatgaa gttacacaca atagcaatca gaataacagc aattgttctt 180
ctccatctcg gatgtctgat tcagtttctc ttaatactga tagtagtcaa gacacctcac 240
tctgctctcc agtgaaacaa actcatattg atattaattc caaaatcagg caagaagatg 300
aaaattttta cagcctttta caaaatggag atatttttaa cagttcaaca gagggaaaag 360

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tcaaagctca tgataaaaaa gattttaact tacctgaata tgatttgaat gttgaagagc 420
 gattagtctt aattgagaaa agtggtgact caacagccac agctgatgac actcaciaat 480
 tagatcatat caatatgaat cttaataaac ttataactaa tgatacattt caaccagaga 540
 tcatggaaag atcaaaaaca caggatatgt tgcttggaaac aagcttttta agcattaatt 600
 ctaaagagga aactgggcac ttggaaaatg gaaacaagta tcctaatttg gaatccgtaa 660
 ataaggtaaa tggacattct gaggaactt cccagtctcc taatcggacn ggaaccccat 720
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<210> 2073

<211> 695

<212> DNA

<213> Homo sapiens

<400> 2073

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 cgatgggtctt tcctctgcat tgctgatctt gtacttggat tcagcaagga accttccgtc 120
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 ccaggagagc aagattcgat acaaaaacaa tgaacctgtg tgggaggaaa acttcacttt 240
 cttcattcac aatcccaagc gccaggacct tgaagttgag gtcagagacg agcagcacca 300
 gtgttccctg gggaacctga aggtccccct cagccagctg ctcaccagtg aggacatgac 360
 tgtgagccag cgcttccagc tcagtaactc ggggtccaaac agcaccatca agatgaagat 420
 tgccctgcgg gtgctccatc tcgaaaagcg agaaaggcct ccagaccacc aacactcagc 480
 tcaagtcaaa cgtcctcttg tgtccaaaga ggggaggaaa acatccatca aatctcatat 540
 gtctgggtct ccaggccctg gtggcagcaa cacagctcca tccacaccag tcattggggg 600
 cagtgataag cctggtatgg aagaaaaggc ccagccccct gaggccggcc ctnancggct 660
 gcncgacctg ggcagaagct ctttcagcct tctgg 695

<210> 2074

<211> 608

<212> DNA

<213> Homo sapiens

<400> 2074

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tacgcgctgc gggaccggca ggggaacgcc atcggggtca cagcctgcga catcgacggg 60
gacggccggg aggagatcta cttcctcaac accaataatg ctttctcggg ggtggccacg 120
tacaccgaca agttgttcaa gttccgcaat aaccgggtggg aagacatcct gagcgatgag 180
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aacttccttt tccacaaccg gggcgatggc acctttgtgg acgctgcggn cagtgtctgtg 540
tggacgaccc ccaccagcat ggcgaggtgt ngcctgctga cttaccgtg atggcaaagn 600
ggacatcg 608
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<210> 2075

<211> 819

<212> DNA

<213> Homo sapiens

<400> 2075

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caccaagctg ggctgcggcc ttcttgacta ccgggagcag gctcagcaga tagaattgaa 180
gaccggaggg atgagtgtt ctcctcacgt gctccccgac gactcacaca tggacaccta 240
cgagcagggt gtgcttttct cctctctctg cctggatcga aacctgccag acatgatgca 300
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ggtgaagatg accgcccagg agctcgccaa tggaattcct gactctgggc acctgtacgc 420
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atccatcagg gcaggccgga ccctcacgcc cgcaggggac ctgcaggaga ccttcagcgg 480
 gatggatcag gtgcggctga tgaagaggat tgcagaaatg acagatatca aacccatcct 540
 gaggaagctc ccgcgtatca agaaacactt gntaaatggt gataatatga ggtgttcagt 600
 gaatgcgact cctcagcaga tgcctnagac aggaaaaagc ggtcgaagac ttccttagaa 660
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<210> 2076

<211> 741

<212> DNA

<213> Homo sapiens

<400> 2076

gtgatccggg gagacaggaa cacgggcaag acagcgtgt ggcaccgcct gcagggccgg 60
 ccgttcgtgg aggagtacat cccacacag gagatccagg tcaccagcat cactggagc 120
 tacaagacca cggatgacat cgtgaagggt gaagtctggg atgtagtaga caaaggaaaa 180
 tgcaaaaagc gaggcgacgg cttaaagatg gagaacgacc ccaggaggc ggagtctgaa 240
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 acccacgtgc cagtgtgcgt gctggggaac taccgggaca tgggcgagca ccgagtcac 420
 ctgccggacg acgtgcgtga cttcatcgac aacctggaca gacctccagg ttcctctac 480
 ttccgctatg ctgagtcttc catgaagaac agcttcggcc taaagtacct tcataagttc 540
 ttcaatatcc catctttgca gcttcagagg gagacgctgt tgcggcagct ggagacgaac 600
 cagctggaca tggacgccac gctggaggag ctgtcggtgc agcaggagac ggaggaccag 660
 aactacggca tctttctcgg aaatgatgga ggctccaanc cngggccatt gcgtncccaa 720
 ttggccggct taacgggcag a 741

<210> 2077

<211> 819

<212> DNA

<213> Homo sapiens

<400> 2077

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ttaaggtgca cttatgcagt ggggaatcat gacttcatag aggcatacaa gtgccagacc 300
gtgatagtcc aatcattctt gcgagcattc caggcccaca aagaagaaaa ctgggctctg 360
cctgtcatgt atgcagtagc gcttgacctt cgagtgtttg ccaataatgc agatcaacag 420
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tggggcatgc tgtttcttgt gaaccagctg tttaaaatct acttcaagat caacaaactc 600
catttatgta aaccctaata tagagcaatt gacagctcaa acctgaaaga cgattacagc 660
actgcacaga gagtaacata caaatactac gttggacgca aggctatgtt tgacagcgat 720
tttaagcaag ctgaggagta cctgncattt gcctttgaca tttcaccgt ctagtcagaa 780
gaacaaaagg atgatctgac tattgctttc agtaaaaaan 819
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<210> 2078

<211> 557

<212> DNA

<213> Homo sapiens

<400> 2078

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cccgaggctg ggggcacctt gccctctcgc ctgcagccca ttctcctcct ggaccctca 180
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ggctctcatg ccccgtgct gactgtgccc gggcttgggc ccttgccctt ccactttgcc 240
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<210> 2079

<211> 759

<212> DNA

<213> Homo sapiens

<400> 2079

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<210> 2080

<211> 791

<212> DNA

<213> Homo sapiens

<400> 2080

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gcatntaca tgcagacatg gangacactg gcatacaggt cgaagatcgt gttctgacct 780
tacgcagcag a 791
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<210> 2081

<211> 815

<212> DNA

<213> Homo sapiens

<400> 2081

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gagaccctgt ctctatttaa gaaaaataa ttaagaaatt ttattaaaaa agaagaatca 720
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<210> 2082

<211> 817

<212> DNA

<213> Homo sapiens

<400> 2082

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gttggggaat aatggcagat tggaataatt gctactatac atttgatggg aagtatgaag 240
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<210> 2083

<211> 821

<212> DNA

<213> Homo sapiens

<400> 2083

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 ggtggacgat taccagatgg acttccaccc ttctccagta gtcctcaagg ttataagaa 180
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 caactatgac ctaactgtg acaagctgtg tgctgacttc caggaagaca ttgagttcca 420
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<210> 2084

<211> 687

<212> DNA

<213> Homo sapiens

<400> 2084

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<210> 2085

<211> 762

<212> DNA

<213> Homo sapiens

<400> 2085

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 gcagcaacac gagctgctgn cggtgtttct gtgtggagt cctggagggtg ctggtgggca 720
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<210> 2086

<211> 710

<212> DNA

<213> Homo sapiens

<400> 2086

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 aggagtcaga ggggtgtgtc aacgacgagc ttcaaactgn tgggagtgtc cgaagtgtaa 660
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<210> 2087

<211> 698

<212> DNA

<213> Homo sapiens

<400> 2087

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gcaaacgtgt tgctcttacc atgccttgn tccacgtagc tggcaaggtc ttcattcact 600
tgccactgct agtcttccaa cccttctgga ctttctttgc tcttggttg gtttggtgn 660
actggatcat gacacttntt tttcntggca ctacccgg 698

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<210> 2088

<211> 718

<212> DNA

<213> Homo sapiens

<400> 2088

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gaagatgact tcctcaacaa cgccatgtcc tccctgtact cgggctggag cagcttcacc 180
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gcgtccaagg tccaggaggt cggtagtaag ggatggcggg acgtcaccac cttttttcg 420
gggaaagcag agggcccctt ggacagcccc tcggagggcc acagttatca gaacagcgg 480

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ctggaccact tccaaaacag caacatagac cagagcttct gggagacctt tggaagtgct 540
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 accgagagga ggagctcgga cagctgggag gtgtggggct cggnctcacc aacaggaaca 660
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<210> 2089

<211> 725

<212> DNA

<213> Homo sapiens

<400> 2089

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 caggaaaacc tgttcgtggg cgatgtctgc agcacgtcg gccattcgca ggaaagacaa 660
 caaatactac atcccggggg cccctgtacg ggaaggncag ctattccggn cgnatgcaag 720
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<210> 2090

<211> 672

<212> DNA

<213> Homo sapiens

<400> 2090

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ggactggttt gaatccttcc ttgatgatga agaggaccta gatgtgaagg ctggnnggag 660
gcttgngtaa tg 672

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<210> 2091

<211> 678

<212> DNA

<213> Homo sapiens

<400> 2091

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atatggaaaa ctggntcgag cggtttcttt tggctcacia ttatcctaaa gtgaggactt 660
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<210> 2092

<211> 665

<212> DNA

<213> Homo sapiens

<400> 2092

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<210> 2093

<211> 701

<212> DNA

<213> Homo sapiens

<400> 2093

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<210> 2094

<211> 796

<212> DNA

<213> Homo sapiens

<400> 2094

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gatgaaccag gagcagttca ttgagctgtg caagacgctt tacaacatgt tcagtgaaga 720
cccatggag caggacctgt accacgccc tgggcaccgt ggccagnctt ctgnttccgc 780
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<210> 2095

<211> 751

<212> DNA

<213> Homo sapiens

<400> 2095

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ttaggtaata atggttccat aaatataggg n 751

<210> 2096

<211> 749

<212> DNA

<213> Homo sapiens

<400> 2096

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<210> 2097

<211> 751

<212> DNA

<213> Homo sapiens

<400> 2097

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<210> 2098

<211> 615

<212> DNA

<213> Homo sapiens

<400> 2098

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<210> 2099

<211> 827

<212> DNA

<213> Homo sapiens

<400> 2099

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<210> 2100

<211> 862

<212> DNA

<213> Homo sapiens

<400> 2100

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<210> 2101

<211> 718

<212> DNA

<213> Homo sapiens

<400> 2101

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<210> 2102

<211> 880

<212> DNA

<213> Homo sapiens

<400> 2102

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<210> 2103

<211> 740

<212> DNA

<213> Homo sapiens

<400> 2103

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<210> 2104

<211> 848

<212> DNA

<213> Homo sapiens

<400> 2104

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<210> 2105

<211> 905

<212> DNA

<213> Homo sapiens

<400> 2105

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<210> 2106

<211> 832

<212> DNA

<213> Homo sapiens

<400> 2106

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<210> 2107

<211> 844

<212> DNA

<213> Homo sapiens

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<210> 2108

<211> 873

<212> DNA

<213> Homo sapiens

<400> 2108

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<210> 2109

<211> 691

<212> DNA

<213> Homo sapiens

<400> 2109

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<210> 2110

<211> 720

<212> DNA

<213> Homo sapiens

<400> 2110

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<210> 2111

<211> 460

<212> DNA

<213> Homo sapiens

<400> 2111

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<210> 2112

<211> 800

<212> DNA

<213> Homo sapiens

<400> 2112

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anaaagcgtc tggaggagat catgaanagg actcggaagt cagaagtttc tгнаaccaag 720
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<210> 2113

<211> 516

<212> DNA

<213> Homo sapiens

<400> 2113

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gagaagatag ccggcccat tggcatgcgt atgagccac cggcctgggt tgaactaaag 180
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atacagatgg ttgtttgcat catcatgggc ccacgagatg atctctatgg ggccatcaat 300
aagctgtgct gtgtgcagtc cccagtgtcc tcccagggtg tcaatgttcg aaccattggt 360
cagccccacca ggcttaggag tgtggcccag aagattttac ttcagattaa ctgtaaattg 420
ggtggtgagc tctggggagt ggntattcct ctgaaacagt taatggtgat cgggatggat 480
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<210> 2114

<211> 800

<212> DNA

<213> Homo sapiens

<400> 2114

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cagggccctg ttacataaac cagagatgat aaaacagata cttccagaac atagtgtgct 180
tcaaaacatt aattttgttg aagcatttca agatgagcta ttagtaactg aagtatatga 240
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taactctgtg aggttactga gatttgagct gtgctggcca gcgcattgcc tcacagtcac 660
gccgcagcat ggatgtgtcg cgccagagag taaactacaa attcttgtga gtcctaattc 720

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ggacgatgga cngaagaaaa 800

<210> 2115

<211> 813

<212> DNA

<213> Homo sapiens

<400> 2115

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ccttgcagga ttccctcctt tttaaatgcc ctgaatcta gctttgcctt ggagacccca 600
gtgggtgctg ctctgcccgt tttcttccctg ccaaggcctg aatcaaattg ttcattctcca 660
accctttgcc aagtttggcc cctcaaaagc tttggtggct tcaaggactg gtagccctgg 720
cagaagccag ggggttgnaa ggggagnaag ctttttggaa caaggcaagg atgcccaacc 780
ggttgctttc aagcttgnct tccttggccc aag 813

<210> 2116

<211> 730

<212> DNA

<213> Homo sapiens

<400> 2116

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tgcctgcggg agcaggtgga gaagaagaac ggcgagctga agagcctgcg gcagagggtc 480
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gagcgtcccc tatccaagta gcctgctgtc gccagccccg cgagcccccc aagatgaacc 600
cagtgggtgga gccactggtc ctggatgctg ggcacctggc tgcnggacc cacctggagc 660
cgggacctac cccacacttg nagccctttc agtacctgga agganggttc acattttccc 720
acgtgggcca 730

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<210> 2117

<211> 703

<212> DNA

<213> Homo sapiens

<400> 2117

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cctcgccgca cgcacagcct ccacctcaca atcctagcag catgatggga cccacagtc 180
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gacaacaagg ccacccaac atgggaggat caatgcagag aatgaaccct ccccaggca 360
tggggcccat gggtcgccgc ccacagaatt acggcagcgg catgagacca ccaccaact 420
ccctcgcccc cgccatgcc gggattaaca tgggcccggg agctggcaga ccctggccca 480

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atcctaacag tgctaactca attccatact cctcctcacc acctggtacc tatgtgggac 540
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 attccagtga caacatctac acaatgatta atccagtgcc gncctgggagg caagcggtcc 660
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<210> 2118

<211> 748

<212> DNA

<213> Homo sapiens

<400> 2118

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 gctgctgctg ccgctgctgc tgcacgaatc gccgcagccc ccagccttgc gcgtcgctgc 120
 tacctcctcg gacagaaatt ttatgaataa gcatcagaag ccagtgctaa caggccagcg 180
 gttcaaaaact cggaaaaggg atgaaaaaga gaaattcgaa cccacagtct tcagggatac 240
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 ggtcttcaat aaactcatca ggagatatata gtatttggag aaggeatttg aagatgaaat 540
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 gctgtcgggg attctgctgg gcaaatggca ccctgcccgc caccatctc accaggtctc 660
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<210> 2119

<211> 802

<212> DNA

<213> Homo sapiens

<400> 2119

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gacagcggac tctgctttga gttgtggttt cggcggcggc gtgcacgaga ggcatacact 540
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tggagacagg cagcccacaa caaggagctt cgagtgccag canatggtgt ccatgggcat 660
tngggaataa acccttcctg ggacatcaaa gccctttggg gaagccggac ccttgaatgc 720
ccctggttna acttggaag aagccccaag aaacactttg gacttctttc tggganaatg 780
gnggtcccc agggacccaa ag 802
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<210> 2120

<211> 759

<212> DNA

<213> Homo sapiens

<400> 2120

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gtgtgtctgt ttgtacagta gatggacaga gacattctac tggagatacc aaagttccct 180
tctgtcttca gtctgtgta aaacctttga aatatgccat tgctgttaat gatcttggaa 240
ctgaatatgt gcatcgatat gttggaaaag agccgagtgg actaagattc aacaaactat 300
ttttgaatga agatgataaa ccacataatc ctatggtaaa tgctggagca attgttgtga 360
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cttcactaat aaagcaagga gtaaataatg ctgaaaaatt tgactatgtc atgcagtttt 420
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 cagaaggcac agacatgggt ggtatattag acttctactt ccagctgtgc tccattgaag 600
 tgacttgtga atcagccagt gtgatggctg cgacactggc taatgggtgg tttctgcca 660
 attactggtg aaagagtacc tganccctgg aagcaagttt cggaatatcc attggagttt 720
 ggatgccatt cctgtggcca tggatggac nttcttnaa 759

<210> 2121

<211> 804

<212> DNA

<213> Homo sapiens

<400> 2121

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 cttgcacccc gagtcctgtt gcccgccatc aaaaaaactt acaagcagat tgagaagaac 180
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 gcattttttg actctgaaaa tgaccctgaa aagtgtctgt tgctgntgca gtttattttg 660
 aactgtttat accaaaatct tcctttttga taccagcat tttataagta aaaggagaga 720
 gcagaagcct tggatgaatg cccttgggtg gatcagcttg gaaaaacagg cttggggggg 780
 angaagagga aatttccagg gcct 804

<210> 2122

<211> 802

<212> DNA

<213> Homo sapiens

<400> 2122

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gaattacact attgtactgg agcttatcgg atttcacctg tagatgtaaa tagtagacct 60
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aagtcagggt ctaaagtcac tagtcatatg cttagtagcc atggaggaga gatttttttt 180
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tggaggaaga gttacagact accggattac agtagttcca ttagccagtg ttattgtgaa 300
agaatctctg acagaagaag atgtgttaaa ctgtcaaaaa acaatataca acttagttga 360
tatggaaaaga aaaaatgata ctctacctat ttccacagtt ggtacaagag gaaagggcc 420
taaaagagat gaacaatacc gtatcatgtg gaatgaatta gaaacccttg tcagagccca 480
tatcaacaac tcagagaaac atcaaagagt cttggaatgt ctgatggcat gcaggagcaa 540
acccccagaa gaggaagaac gaaagaaacg aggaagaaag agggaagaca aagaggacaa 600
gtcagagaaa gcagtgaag attatgaaca ggaaaagtct tggcaagact cagagagant 660
aaaagggaat cttagagcgt tggaaaagga agaantggct gaagctgana ttataaaaag 720
attgccttgg atccccagaa ccttccaaac aaaaaacccc cttggttggg aatgggatgn 780
aaccttcccc aagtgggaaa aa 802

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<210> 2123

<211> 783

<212> DNA

<213> Homo sapiens

<400> 2123

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agattgctcc aattgtgtca gcgaactatg gctcttcctg taggacgagg aatgtttacc 60
ttgttttcgt accatcctgt tccaacagag ccattgccta ttcctaaatt gaatctgact 120

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gggcgtgccc ctcctcgga cacaacagta gaccttaata gtggaacat cgatgtgcct 180
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 gccaatgagt atgctggctt tctcatggct ctgggtttga atgggcacct taccaagctg 360
 gcgactctca atatccatga ctacttgacc aagggccatg aaatgacaag cattggactg 420
 ctacttggtg tttctgctgc aaaactaggc accatggata tgtctattac tcggcttctt 480
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 gtccaagtgg ctgcagtgg tggcattggc cttgtatata aaggacagc tcacagacat 600
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 gcactgacag agagtcatac ttccttanct gctgggcttg gccctgggnc atggctctgct 720
 ttgggggcat ggcaagcaaa tttgatagg gtatggctgg atcttcaatg ngccctgaac 780
 aag 783

<210> 2124

<211> 722

<212> DNA

<213> Homo sapiens

<400> 2124

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 caagggcctc cgctcatgct aaattgagaa tcttaggggt aaagcaccct ctcaggacc 540
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tgtatggtgg gctccacca ctagatgcca gtggcacccc ctcccagaga tgacaaacga 660
 aaaatgtctc tagacattgc caaatgtccc cttgtnaacn tncctaatt gagacccac 720
 tg 722

<210> 2125

<211> 820

<212> DNA

<213> Homo sapiens

<400> 2125

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 aagcatctct ttaagccttc cactttcatg acttcacatg aaccgccagt gtatatggat 120
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<210> 2126

<211> 623

<212> DNA

<213> Homo sapiens

<400> 2126

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nggctcagat gtcacagggt ttctattgcc tgggctggag tgtagtggca tgatcatggc 60
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tgggactaca gagacggggt ttcgctcttg tgaccaggct ggaatgcaat ggcgtgatct 180
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gtttattagc accatttatt gaagggatta tcttttctcc attgtgtctt ctgtgtaccc 540
tcatcaaaaa ttagttgacc catatgtgtt tggatttnt tctgggggtct ctattctgnt 600
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<210> 2127

<211> 804

<212> DNA

<213> Homo sapiens

<400> 2127

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gaagcagcat taagaggTct tctgggagcc ttaacaagta ccccatattc tcccaccag 180
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agaacattga gtcgtatgag gattaacaat gtaccggcag aaggagaaaa tgaagtaaT 360
aatgaattgg caaatcgaat gtctttgttt tatgctgagg caactccaat gctgaaaacc 420
ttgagtgatg ccacaacaaa atttgtatca gagaataaaa atttaccaat agaaaatacc 480
acagattgtt taagcacaat ggctagtgtg tgagagtca tgctggaaac accggaatac 540

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agaagcagat ttacaaatga agagacagtg tcattctgct tgagggtaat ggtgggtgtc 600
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 atgaaagggtt ggatcaaagn tcttaaggac caacctccta atagtgcgga aggtcttcta 720
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 taaatccatg cttgcaanta acca 804

<210> 2128

<211> 555

<212> DNA

<213> Homo sapiens

<400> 2128

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 agtgtggcga ggtgntncgg gaccacatca tcagggccct gggccaaggc cttccacccc 540
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<210> 2129

<211> 599

<212> DNA

<213> Homo sapiens

<400> 2129

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 aatccagttt gaaagaaatt ttgatcggca gaaaagtcgc atcctgagtc tcagctggca 180
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 cacagccgag ggaacagtct tccattttca gctggtcctt gtgacatcta acagcagnga 540
 gaagcactgg ngtgccggac aaaaccgttc cagcatnaca ctcatgacgt gccgcactg 599

<210> 2130

<211> 781

<212> DNA

<213> Homo sapiens

<400> 2130

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<210> 2131

<211> 800

<212> DNA

<213> Homo sapiens

<400> 2131

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<210> 2132

<211> 717

<212> DNA

<213> Homo sapiens

<400> 2132

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cagtgtgcgg agagcccggc tggccactcc ttcctctcat ggctgggctt tagctccatg 420
gacaccaatg gtcctacac agccaacgac ctggacgaga tggggcaaga cagtgtccgg 480
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aagcaactcc ccgactgcat cgtgggtgag gacggactna tccttacgcc cctggggcgg 660
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<210> 2133

<211> 790

<212> DNA

<213> Homo sapiens

<400> 2133

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ataatgaaga aatgcgaagt ggtggttagtc ctcaggatta agtgtaaagg aaaatatgca 180
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<210> 2134

<211> 454

<212> DNA

<213> Homo sapiens

<400> 2134

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 gtttatgggt cagcccagag acgaaaaatg agaccatttg aaggcttcca gcgcaaagct 180
 attgtaattt gtccactga cgaggaccta aaagaccgaa caataaagcg aaccgacgag 240
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 aagctagtga ggcagtacaa cgaggaaggc cgcaaggctg ggccaccccc tgaaaagcgc 420
 tttgacaacc gaggtggtgg tggcttncgn nccg 454

<210> 2135

<211> 604

<212> DNA

<213> Homo sapiens

<400> 2135

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<210> 2136

<211> 749

<212> DNA

<213> Homo sapiens

<400> 2136

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<210> 2137

<211> 809

<212> DNA

<213> Homo sapiens

<400> 2137

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<210> 2138

<211> 576

<212> DNA

<213> Homo sapiens

<400> 2138

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<210> 2139

<211> 807

<212> DNA

<213> Homo sapiens

<400> 2139

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807

<210> 2140

<211> 643

<212> DNA

<213> Homo sapiens

<400> 2140

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tagcagcagc tctggccagc ctacagcggg aggcagcggg gacctgcag aaactggagt	180
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<210> 2141

<211> 586

<212> DNA

<213> Homo sapiens

<400> 2141

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 ccgcagggcg aggtgatcac gcggnagggg cgggtggagg tgctgaacga cgaggactgt 540
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<210> 2142

<211> 732

<212> DNA

<213> Homo sapiens

<400> 2142

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<210> 2143

<211> 737

<212> DNA

<213> Homo sapiens

<400> 2143

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cggcaccgta cagcagctca ccagcaatgc catcctcttc ctgcagcagc ttttggactt  180
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<210> 2144

<211> 751

<212> DNA

<213> Homo sapiens

<400> 2144

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<210> 2145

<211> 812

<212> DNA

<213> Homo sapiens

<400> 2145

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812

<210> 2146

<211> 817

<212> DNA

<213> Homo sapiens

<400> 2146

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<210> 2147

<211> 758

<212> DNA

<213> Homo sapiens

<400> 2147

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<210> 2148

<211> 708

<212> DNA

<213> Homo sapiens

<400> 2148

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 gccgccgctg cagccccggg agcgagaagc cgtgcggccg ggctgtctgc gttcgcgggc 420
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<210> 2149

<211> 803

<212> DNA

<213> Homo sapiens

<400> 2149

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ggteccacct tctacagctg gangcgaaat ctctcatgtt gtcccttcga ggatcaaagt 720
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<210> 2150

<211> 805

<212> DNA

<213> Homo sapiens

<400> 2150

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gttcctctgc caaagatgtt gcaaagcagc tgaaggagca gcagatgggtg atgagaggcc 180
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cccaagtgtc catgtaactt ttggtttaac ctttgcacct ttctcagtgc tgnatgcggc 720
tgcaagccgc tnacctgttt cccacaaagg gaatttctta ctctggttgg aagcncaaac 780
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<210> 2151

<211> 807

<212> DNA

<213> Homo sapiens

<400> 2151

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tagactcctt gaggcagttg tcaatgaagt tcttagagaa aggggagctt gctaacttca 180
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 caaaatatgt gtctgataga cctcaggctt tcaaggaata cacaagcgat gatatgaacg 600
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 aattggtttc agaatctttg gacnata 807

<210> 2152

<211> 808

<212> DNA

<213> Homo sapiens

<400> 2152

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 aaggggagct gcttttttca ttattgctgt gatctgttta ttgctttttg acaatgatga 180
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 gctttacaca gccattgcct tcttaggtgt ggcagatcac aagggtggag tattattgct 300
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 accaaaaagg accccttaat tggatatt 808

<210> 2153

<211> 803

<212> DNA

<213> Homo sapiens

<400> 2153

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agatgccaaag gggaaactta gaagttgttc atcatcgagc cctggtttta gctcagattc 180
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<210> 2154

<211> 792

<212> DNA

<213> Homo sapiens

<400> 2154

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 aanaataacc aaaactatcc agaatggcag ggaattgntt gagtcttccc tttgtggaga 720
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 aaaagaggaa na 792

<210> 2155

<211> 839

<212> DNA

<213> Homo sapiens

<400> 2155

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 ggagctctgc ggccactggc tgcggccggc tctgcacacc aagaaacaga tcctggagct 180
 gctgggtgctg gagcagttcc tgagtgtgct gcctccgcac ctccctgggccc gcctgcaggg 240
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 cagaaccccc gaccaaggan gaatttaaac aagaagaccc aaaggggctt gcctggccac 780
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<210> 2156

<211> 805

<212> DNA

<213> Homo sapiens

<400> 2156

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 caagtctgca aaacagtttt cagcttagat gtcaacagtg tgaggaccag cagagagaag 240
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 ccgaatgcca ttctctaaaa agggaaaatg ttttgctatc atcagaactg caacggcaag 360
 aaaaagaatt gcacaattct cagaagcaga gtttagagct taccagtgat ctcagcatcc 420
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<210> 2157

<211> 840

<212> DNA

<213> Homo sapiens

<400> 2157

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atttaatctc caaagaacca aagccttttg tatttgaggg aaaagtacgt ggtcctattg  180
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gaagtctgtc ccagaatatt cagangtggc ttatcccgat tatttggtca cattccgcct  780
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<210> 2158

<211> 784

<212> DNA

<213> Homo sapiens

<400> 2158

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aggatttcat atccagtga tataacatcg atccaagaag cagaagaata ttttaagtggg  180
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 ggaatcttga gggcatatTT tgatcctctg cctncccttc ctcttcttgn tttggtgaat 720
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<210> 2159

<211> 841

<212> DNA

<213> Homo sapiens

<400> 2159

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ggaggtgaac angggcaacc tgtcacatgg gcgaaccaa actgttggga atcaaagagc 780
 ttttcaaacc tgcctacggg gatgccatgg tgtgtccccc aagggangtt ccagtgttct 840
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<210> 2160

<211> 839

<212> DNA

<213> Homo sapiens

<400> 2160

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 aacaggacaa aatagttgta caggttatat gtggcatagc ataaccacag taagaacaga 180
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<210> 2161

<211> 841

<212> DNA

<213> Homo sapiens

<400> 2161

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<210> 2162

<211> 756

<212> DNA

<213> Homo sapiens

<400> 2162

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<210> 2163

<211> 841

<212> DNA

<213> Homo sapiens

<400> 2163

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 tgacccgaga gtccttgctt atcaaatgcc ttgaagctgt catcctgggc atctacttaa 660
 ccaatgggca gccttccatt gagcggttcc ccatcagctt taaaacctac ttctcaggaa 720
 actactttca ccacgttgtg ctggggattt actgcaatgg gccgctatgg ctcatggggc 780
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841

<210> 2164

<211> 796

<212> DNA

<213> Homo sapiens

<400> 2164

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gaaccggcgg ctactgcgca ccagcccgcc tgtacgagct ttcgccaaag agcttttctt 180
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tctgcctnac ggagccagcc agtgggagcg atgccagcct taatccggag cagagncccc 720
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<210> 2165

<211> 743

<212> DNA

<213> Homo sapiens

<400> 2165

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 ggctgaagag gcctgggccc agatggagga gtaaccagga aaatcactgc cggctagtcc 180
 caagcaaacg ggctaggagg aaagattaaa aaaacaacaa caacaactta tttagtttgg 240
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 gctaattttt gcatttttag tagagatggg gtttcacat gttggccagg ctggtctcga 660
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<210> 2166

<211> 841

<212> DNA

<213> Homo sapiens

<400> 2166

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 gaaccaaagt ggtactaact actaaagttg gatctccagc tacagtaaca ttccaacaaa 480
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 ctctggagga accacaagca attcacaagt aatcacaggg cctcagattc gccctgggtat 720
 gaccgtgatt agacaccact tccaacagtc aacactagga aaggcaattt nttcgaacac 780
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<210> 2167

<211> 826

<212> DNA

<213> Homo sapiens

<400> 2167

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 ctcatgtcta acccgggcct caaattctct gtcagaaatg aagtaatggc taccagccac 180
 gtcacagatg aatggatgac acaaatggaa atgagtagcc tgaacactta cattgtccgc 240
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 gcatttgatc ccactaggag acaatggatc ctccatgcag tagctaatac agggttgatt 360
 tctttgactg gtccttactt agatgttgga ggagctgggt atgttgtgac aatcagtcac 420
 acaattcatt catccagtac acagctgtct tctgggcaca ctgtggctgt gatgggcatt 480
 gacttcacac tcagatactt ctacaaagt ctgatggacc tattacctgt ctgtaaccaa 540
 gatggtggca acaaaataag gtgcttcata atggaggaca ggggttatct ggtggcgcac 600
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 gagcccctgg tagcaaatga tctctcaac caccacaact ttgtaaagaa aaacctgtgc 720
 aacaagcttc agtgacagaa cggtccaaag gtttataatt caacaccagc cttgcggggg 780
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<210> 2168

<211> 806

<212> DNA

<213> Homo sapiens

<400> 2168

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gccactcgac tgttgctctg tgagcatgcc gaaaagctgt cagccgccat tgttctcaag 300
aaccaccact cccggctttc tgacctgtc aacacagcca tattgattgc tttgaacaag 360
agggagtatg aaatcccatc caacctgact cctgcagatg tctttttcag ggaggtatcc 420
caagtagata ccattctgtga gtgcttactg gagcatgagg agcaagtctt gagggatgca 480
cctatggatt ccattgaatg ggctgaagtg gtgatcaatg tgaacaatat tctcaaggat 540
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cgaacggtaa taatacgcca gcatgagatt gtcctgaagg tggcttatcc acaggcagac 720
agcaacctcc gaaacatcgt gaccgancac ttggtagccc tgatcgattg cttnctggaa 780
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<210> 2169

<211> 530

<212> DNA

<213> Homo sapiens

<400> 2169

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caggatgcct gggaaccgt atagcatcaa tgagccaggc atcgggccgc tgatgaggga 180
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tataaagaac aagatttgcc aggactgtga cttagtggcc ctcctggaag atgacagtgg 240
 catggagctt ctagtgaaca ataaaatcat tagtttggac cttcctgtgg ctgaagtta 300
 caagaaagtc tgggtgtacca cgaatgangg anagcccatg aggattgttt atcgtatgcg 360
 ggggctgctg ggcgatgcc aagaggagtt cattgagtcc ctggactcta ctacagatga 420
 agaagaagat gaagaagaag tgtataaaat ggctgggtgtg atggcccant gtgggggcct 480
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<210> 2170

<211> 836

<212> DNA

<213> Homo sapiens

<400> 2170

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 tttgaattta atcaggcatt gggaagacca gaaaaaattc acaacaatt agaatttccc 240
 caagttttat atttggacag atacatgcac agaaacagag aaataacaag aattaagagg 300
 gaagagatca agagactgaa agattacctc acggtattac aacaaaggct agaaagatat 360
 ttaagctatg gttccgggtc caaacgattc cccttggtag atgttcttca gtatgcattg 420
 gaatttgcct caagtaaacc tgtttgcact tctcctgttg acgatattga cgctagtcc 480
 ccacctagtg gttccatacc atcacagaca ttaccaagca caacagaaca acaggagacc 540
 ctatcttcag aactgccaag cacatcacct tcatcagttg ctgccatttc atcgagatca 600
 gtaatacaca aaccatttac tcagtcccggt atacctccag atttgcccat gcatccggca 660
 ccaaggcaca taacggagga agaactttct gtgctggaaa gttgtttaca tcgctggagg 720
 acagaaatag aaaatgacac cagagatttg caggaaagca tatccagaat ccatcgaaca 780
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<210> 2171

<211> 620

<212> DNA

<213> Homo sapiens

<400> 2171

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gtgcctcctg agagaagctg ctcgtcaggc ccctgccatg gctccagttg gccgactgag  180
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cccaggttcc ttgatggagc cggatggagaa ggaacgagca tctactccct acatagagaa  300
gcaggatggac cacctcatca agaaggccac aaggccagag gagctcctgg agctacttgg  360
tggcagtcac gacttggaca gcaatcaagc agcaatggta cttatccggc tctctcactt  420
gctgtctgag aagccagaag ataaaggctt gtcatacag gatgcccact ttcatcaact  480
tctctgtctg ctcaacagtc agattgcctc ggtctggcat ggtaccctct cgaagctgct  540
gggaagcctg tatgtcttgg gcatcccca aagcctncaag gagctgcagt cggatggagca  600
ngangtccgc tagcgcatgc                                     620

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<210> 2172

<211> 656

<212> DNA

<213> Homo sapiens

<400> 2172

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aactttatca agagcctgga tgactcgcag tgtggcatca cctacaagat ggagaagggtt   60
tactccacct tgaaagataa ggatttggag ctctacctga aactgcaaga gcagaacatc  120
aagcctcagt tctttgcctt ccgctggctg aactgctgc tgtcccagga gttcttgctg  180
cctgacgtca tccgcatctg ggactccctc ttcgccgatg acaaccgctt tgacttcctc  240
ctcctcgtct gctgcgcat gctcatgctg atccgggagc agttgctgga aggggacttc  300
actgtgaata tgcggctgct gcaggactac cccatcacag atgtctgcca gatcctgcag  360

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aaagccaagg agctccaaga ctcaaagtag cccggcggca agaggccac gttcggggga 420
gaagcctccc gaccctgtgc cctggctccc gggacacata gaaacctgta ggaaccagc 480
ctgaggggaa gccacaggat cggcccgaga cccaggccat gccactggg gacacactgt 540
gccgtgctcc ttctgccgcc acgccagct cccacctgc cctgcactct gcctctttgc 600
caggatactg angagggtg gagctcggga agttgncctt cctggggcan ggcccg 656

<210> 2173

<211> 683

<212> DNA

<213> Homo sapiens

<400> 2173

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acgtggattg aggtctnagg ttctctgcc aaagatgttg caaagcagct gaaggagcag 120
cagatgggtga tgagaggcca ccgagagacc tccatggtcc atgaactcaa ccggtacatc 180
cccacagccg cggcctttgg tgggctgtgc atcggggccc tctcggctct ggctgacttc 240
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ggcactggca aaaagaactg tgaaagtga attttattca gcccgactgc cagagaagtg 600
ggaatggtat aggattgncc ccaaagtgtc catgtaactt ttggtttaac ctttgcacct 660
tctnatgctg gatgccggtt gna 683

<210> 2174

<211> 725

<212> DNA

<213> Homo sapiens

<400> 2174

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aaaaaaaaa aaaaaaaaaa atttacagag ttgtcctcgg aggtccagga cagcggccag   60
cccggcggcg ggagtcaggg ccacgccacc tgcaggaag aacccgagtc gaagcgggaa  120
gatggctgca gacaggcctg cagatcaggg agcagagaaa catgaaggca caggtcagtc  180
ctctgggata actgatcaag agaaggagtt atccaccaat gctttccaag ctttcacatc  240
tggaattat gatgcctgtc tacaacacct tgcctgtcta caagatataa acaaagatga  300
ttataaaata attttgaata cagcagtagc tgagtttttt aaaagtaacc aaacaacaac  360
agataatttg agacaaacac ttaaccagct gaagaatcag gtccactcag ctgttgaaga  420
aatggatgga ttagatgatg ttgaaaacag catgttgtac tataatcaag cagtcattct  480
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agagcctttt gaaaaatttg cccaagcagt gtgntttttg cttgtagacc tgtatatatt  600
aacctaccaa gcttgagaaa gctttgcata ttcttgctgg cctaanaaaa aaatgatttc  660
acaagggtaa ccaattaccc aaaaatggga aaggaatgga gactgggtna ttaaccaacc  720
cnccc                                           725

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<210> 2175

<211> 713

<212> DNA

<213> Homo sapiens

<400> 2175

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actggagaga gaccctacac atgtgaggaa tgtgggaaag cctttagtcg tagttcattc  180
cttgttcaac atcaaagaat tcacactgga gtgaaacat atggatgtga gcagtgtggg  240
aaaacatttc gatgtcgatc atttcttact cagcatcaaa gaattcacac tggagagaaa  300
ccttataaat gcaatgaatg tgggaattcc ttccgcaatc actcacatct cactgaacac  360
canagaattc aactggaga gaaaccttat aaatgcaata ggtgtgggaa ggcattcaat  420

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cagaatacac accttattca tcatcagaga attcacactg gtgagaagcc ttacatatgc 480
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 actggggaaa aaccccataa atgtgacnaa tgtgggaaaa ctttccaaac aaaggcaaac 600
 ctctctcagc atcagagaat tcatagtgga gagaaccccn ctaatgnaaa agaattgtggc 660
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<210> 2176

<211> 557

<212> DNA

<213> Homo sapiens

<400> 2176

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 ggctggccct cggcgcgcc gccctgtgt tggcccaca atccctggca atgagaggcc 180
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 agacctttgt cttttgaggt gcccaaacca ttgattcctg tggcangggg ccctatgatc 480
 caacaccata ttgaagcctg tgcccagggt cctgnaatgc angagattct gctcattggc 540
 ttctaccaac ctgatga 557

<210> 2177

<211> 616

<212> DNA

<213> Homo sapiens

<400> 2177

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 cgacccgtgc tgagctggat ggaccgcgag acgcgcgccc tcgccgacag ccacttccga 180
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 accttaaaag actggcactt gtgcaaggga cttttccggt gggaaggacg ttttcaccct 600
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<210> 2178

<211> 560

<212> DNA

<213> Homo sapiens

<400> 2178

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 tcaacttcat caggttctcg gagagccact ggtttgtgtg ggtcacacag atgaatcaca 180
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 ttgagcacca cctcttcccc accatgcccc ggcacaactt acacaagatc gccccgctgg 360
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 tgctggacat catcaggtcc ctgaagaagt ctgggaagct gtggctggac gcctaccttc 480
 acaaatgaag ccacagcccc cgggacactg tggggaaggg gtgcangtgg ngtgatggcc 540
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<210> 2179

<211> 854

<212> DNA

<213> Homo sapiens

<400> 2179

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aaaatccttt taccggaaag cacacctcat tcagcatcag aggccccact caggagagaa 180
aacttaccaa tatgaggaat gtgcaaaatc cttttgttca agttcacatc ctattcagca 240
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tcagaattca aacctcagta aacatctgag aattcacaca aaagagaaac cttgtgataa 360
caatggctgt gggagatctt acaagtcacc cctcatagga caccagaaaa cagatgcaga 420
gatggaactc tgtggtggca gtgaatatgg gaagacatca catctcaaag gacatcagag 480
aattctcatg ggggagaaac cctatgaatg tattgaatgt gggaaaactt tctccaagac 540
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tgnaatgaat gtgg 854

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<210> 2180

<211> 706

<212> DNA

<213> Homo sapiens

<400> 2180

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 tctcagtcctc acgccagatg tcccagaggc agacctttct gaagtggacc ccaagctcgt 240
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 ggagcaggcc ttccttcggt ggctgccatc tctgagccca gattgcatca acgtcgtggt 480
 gactgggaag gaccgcctga cagctggcct gatcaacatt gtcagctttg accttcttag 540
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 cctcaaaaac agtaggactg cccgctgtcg agcagctatg ccggtcctaa aggttgccaa 660
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<210> 2181

<211> 828

<212> DNA

<213> Homo sapiens

<400> 2181

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 ctccctctga tcctgatgct gtgagtgtg aagaggcctt gaaatatttg ctgcatctgg 420
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<210> 2182

<211> 866

<212> DNA

<213> Homo sapiens

<400> 2182

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<210> 2183

<211> 865

<212> DNA

<213> Homo sapiens

<400> 2183

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tgttaaagtt tacagcacag ttacagaaga gtgtgtacac atactgcatg gacacagaaa  180
tctggtgact ggaatccagc ttaaccccaa caaccatcta cagctgtatt cttgttcctt  240
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tggatgtaaa cttcatgccc tctttactct tgcccaagct gaggattctg tctttgttat  360
agtgaataaa gaaaaaccaa atatatattca gctggtttca gtgaaactgc caaaatcctc  420
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caagtgcatt gcctttggaa acgagggagt atatgttgct gcagtacggg aattttactt  540
gtctgtttat tttttcaaaa agaaaacaac atcaaggttt actttatcat catcaagaaa  600
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tatacgtaaa catgtttaca ttgcaccatg atccggtatg gatttggctt tttcagtgac  780
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<210> 2184

<211> 878

<212> DNA

<213> Homo sapiens

<400> 2184

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gagaatttcg tacgtggact gatattaacg ttgtggttta tcatgggagc ctgattagca  180
gacaaatgat acagcaatac gagatgtact tcagggtatc acaggggcgt atcattcgag  240

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gagcttacag attccaagcc atcatcacca cttttgaaat gattcttggg ggctgtggag 300
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 aaaattgtaa actcttagag ggcctgaaac tcatgaatct ggaacacaag gtgcttttga 420
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 ttcaaaagaa atactaccgg gctatcttgg aaaagacttt tcttttttat ccaaaggagc 720
 aggacaaact aatgtcctaa cttgggcaat accatgatgg agctcaggaa atggtggaat 780
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 aatccactgg ttctggattt catcttcaac caaggatc 878

<210> 2185

<211> 760

<212> DNA

<213> Homo sapiens

<400> 2185

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 acagcctttg ccttgagcaa acccacagaa aagaaggacc gtgtacatca tgagcctcag 180
 ctcaagtaca aggttcacaa tgatgctcag agttttgatt atgacctga tgccttcttg 240
 ggtgctgaag aagcaaagac ctttgatcag ctgacaccag aagagagcaa ggaaaggctt 300
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<210> 2186

<211> 809

<212> DNA

<213> Homo sapiens

<400> 2186

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caccatgccc actaattttt gtatttttgg ttagagatgg ggtttcgcca tgttggccag 420
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<210> 2187

<211> 831

<212> DNA

<213> Homo sapiens

<400> 2187

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aacatcacc tggacttcat caaaggggga agttggacca agnaaaacct tgnctttta 780
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<210> 2188

<211> 896

<212> DNA

<213> Homo sapiens

<400> 2188

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<210> 2189

<211> 895

<212> DNA

<213> Homo sapiens

<400> 2189

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 cctatctatg gatgtgtttt gtgtgacca tacagtgttg taaaaaacac ttagaaccat 780
 tattctaaaa aatggggcta tttcacatta aagtccagaa ttctggttct tttttaaca 840

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<210> 2190

<211> 906

<212> DNA

<213> Homo sapiens

<400> 2190

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<210> 2191

<211> 681

<212> DNA

<213> Homo sapiens

<400> 2191

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<210> 2192

<211> 871

<212> DNA

<213> Homo sapiens

<400> 2192

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<210> 2193

<211> 819

<212> DNA

<213> Homo sapiens

<400> 2193

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<210> 2194

<211> 786

<212> DNA

<213> Homo sapiens

<400> 2194

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<210> 2195

<211> 698

<212> DNA

<213> Homo sapiens

<400> 2195

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aaactcaagc tccccaaaga ccggcagtag gtggtgcggc tgatggcccc cttcaacatg 180
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<210> 2196

<211> 845

<212> DNA

<213> Homo sapiens

<400> 2196

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 tgataacaat gatgatttcc tgacaatggc agaatgtcaa ttcattatca aacatgaact 480
 tgaaaatctt agagctaaag atgaaaaaat gatccctggt taccctcagg caaagttgta 540
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 actgcatgac agtgaagccc tgaagaagct tgaggacacc tggtacactc ggtttgcttt 660
 gaagtatcag cccatagaca gtattcgtgg ctactttggg gaaacaatgc tctgtctttg 720

gattttttgg agtatttcac ttttgcattha atccccatgg cttgncattg ggttacctta 780
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<210> 2197

<211> 913

<212> DNA

<213> Homo sapiens

<400> 2197

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atttgttatg tgctggtgaa acctcacgat ggtgagactc tgtgcattac ttgcagtga 480
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gaaaatatgt cttaaattggg aattagcttc agtgaagacc agcaaaagga aaaggatcag 660
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gatggggaac ccaaccttaa actgggaaga ccactggtta attaccaag gccaaagctc 840
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<210> 2198

<211> 146

<212> DNA

<213> Homo sapiens

<400> 2198

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gctgagccag gccgtggagg gctgggcgtg ggggagccag ggcctctggg cggaggtggg 120
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<210> 2199

<211> 808

<212> DNA

<213> Homo sapiens

<400> 2199

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cggcctgacc ttatttgttg gccgcctccc gccctcggcc cgcagtgagc agctggagga 180
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ggcatgtcga ggctttggct atgtcacttt ttcaatgctg gaagatgttc agagggccct 300
caaggagatt accacctttg aagggttcaa gatcaacgtg actgttgcca agaaaaact 360
gaggaacaag acaaaggaaa aggggaaaaa tgaaaactca gagtgcccaa agaaggagcc 420
gaaggctaaa aaagccaaag tggcagataa gaaagccaga ttaattattc ggaacctgag 480
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gacagtggct gtggattggg cccgtggcaa aggataaata taaagataca cagtctgttt 720
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ggcanaanag gaagaaggat ttggaaga 808
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<210> 2200

<211> 827

<212> DNA

<213> Homo sapiens

<400> 2200

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tgcaacactg tgggtgctgcc ccagtggcac tccttctcca ggaccacaaa cgtctgtgaa 60
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agcttttttg aaatggcagc agctctggat tctttctacc tcaaggagca gaccttttat 180
catgtggcat cagacagcat agaatgcagc aattttttaa cttcctatag ccccttcagc 240
tactacactg catgttgcag gaccataagc aggggtgtgt caggcttcat cgactctgaa 300
caaggtgtct ttgaagcccc tactgttgca ttttcttccc ttgagaagaa atgtgaggtt 360
gatgccccaa gctccgttcc tcacattgag gagaacaggt atctctttcc agaagtggac 420
atgactagca caaacttcac aggcctgagc tgcagaacca acaagactct caacatctac 480
cttttgatt caaatttggt ttggttatat gcagagagac tgggtgctcc gagctccact 540
caggtgaaag aatttgcggc aattgttgac gtgaaagaag aatctcatta catcttgat 600
ccaaagcaag cactgatgaa gtcacccta gagtctttta ttcaaaactt cagcgttctc 660
tatagtccct tgaaaaggca tctcattgga agtggctctg cccagttccc cgtctcacat 720
ttaatcactg aagtgacaac tgataccttt tgggaagtag tccttcaaaa acagggacgt 780
tctnctgctc tattacgctt ccgtgggtgcc ggnttctgnc catccct 827

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<210> 2201

<211> 801

<212> DNA

<213> Homo sapiens

<400> 2201

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aagattgcat gggaactgga tcagactgta cttggaggaa aagcattcag aagtcctatt 60
caacctgggc tccaagggtc tcaggcagta cctggatgct ctgaagacgc tgagcttgct 120

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cctgagtgca caagtggccc agtacgacat ctattcgatg atggtgggga ctgtcgtggt 180
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 gctggaagtc ccactgtcat ctcttgggtt ttctctgctc ttttatttgg tgatcctggt 300
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 cggtagacct tccgtgtggc ctctgtgtgg aacaaggga tgacggggcc acagcaaccg 720
 tggcaaggac nggcctggct tgtgatatcc tggaacgagg acaaaaggcc acggaagccc 780
 cntacctnc gaatgcttaa a 801

<210> 2202

<211> 852

<212> DNA

<213> Homo sapiens

<400> 2202

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 atgaggctca gtcaagtaat caacgtaaga gagctaataa gcacaagtgg gtaccactcc 180
 acttagatgt tgtaagatca gagagtcaag aaagacctgg atcccgaac agctcaagat 240
 gtcaacctga agcaaataaa ccaacacata acaataggag aatgataca cgaagttgga 300
 agcgagatag agaaaaaaga gatgatcaag atgacgtttc cagtgtgaga agtgagggtg 360
 gtaatatccg aggttccttt agaggtcgag gaagaggccg aggacgggga agaggacgag 420
 gcagaggaaa tcctcgatcg aactttgatt attcatatgg ttatcaagaa catggtgaaa 480
 ggactgatca accatttcaa acagaactta ataccagtat gatgtattac tatgatgatg 540
 gtacaggtat acaggtgtat cctgtgggag aagcgttgct taaagagtat attagcgtc 600

aaattgaata ttacttcagt gtagaaaatt tggaacgaga cttctttctt cggggaaaga 660
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 cactacaaac cttaatctca tcttaaagca cttgaaggat acacagaata gaaattgtgg 780
 atgagaaatt gagaaaagag attgaccnga aaaatgggcc aatttccagg nccttcttnc 840
 acgcaatgtg cc 852

<210> 2203

<211> 890

<212> DNA

<213> Homo sapiens

<400> 2203

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 cgcttgactt cattcggaac ttgtgccaga agagacatgt ttgtatccag tcctctctgg 180
 caaaagtatc ctcaaaaaag gtaaagtga aagatgttga taagtttctg ctctaccagc 240
 atttttcttg caacataaga aacattcacc atcatcagat tctggcaatt aaccgtggag 300
 aaaatttgaa ggtactgacg gttaaggta atatttctga tggagtgaag gatgaattct 360
 gtaggtggtg catccaaaac aggtggagac cacgtagctt tgcaaggcca gagttaatga 420
 agatcttata taattcactg aatgattcct ttaaagcct tatttattct cttctctgta 480
 gagaattcag agccaaacta acatcagatg cagagaagga atcagtaatg atgtttggac 540
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 atactgatgt ggtttacttg cattgtggac aaggcttccg agaggcggag aaaataaaga 720
 ccttttgctg aattcaactg cagcacagta gtgattggaa gtggaactgc ctgcagggaa 780
 acagaactta ctttgctgac ctgataatga agaattattt tgcaccctgg atgtggttac 840
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<210> 2204

<211> 827

<212> DNA

<213> Homo sapiens

<400> 2204

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aaaaaaaaag gtaacttcag tgcgtttatg cagaaggaga tcttcgaaca gccagaatca   60
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ttgaaggacc acttgaagga gattcgacga tgccgacggc tcatcgtgat tggctgtgga  180
accagctacc acgctgccgt ggctacgcgg caagtttttg aggaactgac tgagcttcct  240
gtgatggttg aacttgctag tgattttctg gacaggaaca cacctgtgtt cagggatgac  300
gtttgctttt tcatcagcca gtcaggcgag accgcggaca cctcctggc gctgcgctac  360
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cgcgagaccg actgcggcgt ccacatcaac gcagggccgg agatcggcgt ggccagcacc  480
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ctgatcaagg aagtgtgtc tctggaggag aagatccacg acttggccct ggagctctac  660
acgcagagat cgctgctggt gatggggcgg gctacaacta tgccacctgc ctggaaggag  720
ccctgaaaat taaagagata cctacatgcc tcagaaggca tncgtctggg gaactgaagc  780
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<210> 2205

<211> 787

<212> DNA

<213> Homo sapiens

<400> 2205

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atggcagtgg agtcattcat ggcaacagcc ccctttgtcc aaattggcag gtttttcctc   60
tcgtcaggcc tcatcgaaa agtcgacaac ttcaagtccc tgagcctatc caagctggag  120
gaccctcatg tggacatcat tcgccgtgga gactttttct accacagcga aaatcccaag  180

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tatccagagg tgggagactt gcgtgtctcc ttttcctatg ctggactgag cggcgatgac 240
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 cccctgtggg cctcctcat tgccggcctg gcccttgtgc ccatccttgt tgctcgggac 660
 acgggtgcca nccaaaaaag ttggagtga aagaccctgg caccgccccc gacacctgcg 720
 ttgaaccctt aggatccagg tcttttttaa cctctgaccc agcttcaatg ccanagnang 780
 gagcccc 787

<210> 2206

<211> 876

<212> DNA

<213> Homo sapiens

<400> 2206

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 tacattattc atctttatcc ttctctcact ttgcggaatc ttctcccata ttccctaaga 180
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 ctgcattcga gaatcagtgg tgaataatg gaattagtcc tgggtgaaata ccaggggcaa 300
 aactggaatg gacatttccg catacgtgat aactaccag aattctttcc tgttgttttt 360
 tcttctgact ccacagaagt gacgacagtc gacctgtcag tccacgtcag gagaattggc 420
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 ctccagtatc gttcagaaga tattcatgtg aaacatccag ctgatttcag ggatattatt 540
 ttattttctt tcaagaagaa gaacattttt actaaaaata aggtacaatt aaaaatttca 600
 accagtgcct ggtccagtag tttctcattg gatacagtgg gaagttatgg gtgtgtgaag 660

tgtcctgcc acaatatgga gtacctggtt ggtgttagca tcaaatgag cagtttcaac 720
 ctttcacgaa tagttacctt gacttccctt ttgtaccatt ggcaaacaag tcatcattag 780
 gaactagaaa gtttggccaa gattggcatt ctggaatggg cttcaatggc caacttaant 840
 aaaatgggaa cctattantg ggctttcttt tcanaa 876

<210> 2207

<211> 762

<212> DNA

<213> Homo sapiens

<400> 2207

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 cgaggccatt tccagcacat agaagagaga ttggaaacca acgtgcagaa ctgccagtcc 180
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 gagcagtgcc cggatcacca tctncgangg ctcctgcctg aacgcatcac caccatcacc 720
 gggctctacag caactgtctt tcatgcagtc ttccatgatt gn 762

<210> 2208

<211> 772

<212> DNA

<213> Homo sapiens

<400> 2208

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gaagaagaag aacttctagg tcctaaacta gaagaggaag aagaagagga agtagttgaa 60
aatgatgagg agatagcctt ttcaggcaag gacaagccag cttcagagaa tagtgaggag 120
aagctgatca gtaagtttga caagcttcca gtaaagatcg tacagaagaa tgatccattt 180
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gagaccccac tgtgtaccct tctggactgg caggattctc ttgccaagcg ctgcgtctgt 660
gtgtccaata ccattcgaag cctgtcattt gtgccaggca atgacttttg agatgtccaa 720
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<210> 2209

<211> 866

<212> DNA

<213> Homo sapiens

<400> 2209

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cacgtccaag gaaccgatct tcctgaccca attgctacat ttcagcaact tgaccaggaa 60
tataaaatca attctcgact acttcagaac attctagatg caggtttcca aatgcctacg 120
ccaatccaaa tgcaagccat cccagttatg ctgcatggtc gggaacttct ggcttctgct 180
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aaagcagcag tggcagccaa gaaatttgga cctaaatcat ctaaaaagtt tgatattctt 420

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gtgactactc caaatcgact aatctatitta ttaaagcaag atccccccgg aatcgaccta 480
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 gggttcagag accagctggc ttccattttc ctggcctgca catcccacaa ggtccgaaga 600
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 aatgtcatca gtgtgtccat tggagcaagg aattctgcag tagaaactgt agaacaagag 720
 cttctctttg ttggatctga gaccggaaaa cttctggccg tgagagaact tgttaaaagg 780
 gtttcaatcc acctggtctt ggttttggtc agtccattgg aangggttaa agaacttttt 840
 catgagctca tntttgaagg gnttaa 866

<210> 2210

<211> 684

<212> DNA

<213> Homo sapiens

<400> 2210

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 cgcgccttcc accacctgcc ccagatggag accctcatgc tcaacaacaa cgctctcagt 120
 gccttgcacc agcagacggt ggagtccttg cccaacctgc aggaggtagg tctccacggc 180
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 gcagaagagg cagggctata cacctgtgtg gcccagaacc tgggtggggc tgacactaag 600
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 ttgaacttcc ggtgccngan acca 684

<210> 2211

<211> 648

<212> DNA

<213> Homo sapiens

<400> 2211

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agtgccttca aaagaattgg cgcccgctgt tcgcctctcc tcccgggagt cttctgccta   60
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acttcgaagc catcctggct gaggctaatac tccgctgtgc ttcctctgca gtatgaagac  180
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gcctcccgaa aggggggatc cgccccggtt gtcccagat cctgtggctg gctcagctgt  360
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ggggtctgga aaagccatgg aagatacctc tggggaaccc gctgcagang acgagggana  600
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<210> 2212

<211> 836

<212> DNA

<213> Homo sapiens

<400> 2212

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gagtctcaag gcgcaagagg aggccagggc tcgaccaca gagcaccctc agccatcgcg  180
agtttccggg cgccaaagcc aggagaagcc gcccatcccg cagggccggt ctgccagcga  240
gacgagagtt ggcgagggcg gaggagtgcc gggaatcccg ccacaccggc tatagccagg  300
ccccagcgc gggccttgga gagcgcgtga aggcgggcat ccccttgacc cggccgacca  360

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tccccgtgcc cctgcgtccc tgcgctccaa cgtccgcgcg gccacatga tgcaaatctg 420
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 gaacaacatg gaccagacgg tgatggtgcc cagcttgctg cgcgacgtgc ccctggctga 540
 ccccggttta gacaacgatg ttggcggtga ggtaggcggc agtggcggtc gcctggagga 600
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 ggacatgtac agccactacg tgctttctca gtccatccgc aacgacatcg agtgggggggt 720
 cctgcaccag cgctcaccgg ctggagcang aggcagtgtc gaatcaaggc atctgtgact 780
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<210> 2213

<211> 835

<212> DNA

<213> Homo sapiens

<400> 2213

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 aaggaccttc tggaccctgc acggtggcgg atgctgatcc agcagtttcc ggtacgacaa 720
 cttaccgact acaccagctt gggaaacaat ttctgggggt tcacccttta cccttgacang 780
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<210> 2214

<211> 852

<212> DNA

<213> Homo sapiens

<400> 2214

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ggcccagaac acaacgagta tgccctgggtg tcggcatggc acagttctgg ctccctacctg   180
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<210> 2215

<211> 508

<212> DNA

<213> Homo sapiens

<400> 2215

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 acgctgaatg ccagtgatgt gctctcagcc atggaagaga tggagttcca gcggttcggt 420
 accccattga aagaagctct ggaagcatat aggcgggagc agaaaggcaa ganggaggcc 480
 tnanagcaaa agaagaagga caaagaca 508

<210> 2216

<211> 811

<212> DNA

<213> Homo sapiens

<400> 2216

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 gatggggccc atgttgatg ctgctacaag gaaacctatc tggcgacatg aaatcttaga 180
 tgcagatggt atttgttctc caggtgagaa agtagaaaac aaacaagtgc ttgtaaataa 240
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 gtacaaagat gtaccataa cctacaaagg agcaacagac tcatatattg aaaaagtgat 360
 gatatttca aatgctgaag atgcttttct gatcaaatg ctgctgagac agacaaggcg 420
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 ngatgtgtgt gaggacctg ttcgcatgg gtataactac ttggggaaag actatgttac 720
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gaacaatggn gctagataaa tgcatgcccg g

811

<210> 2217

<211> 873

<212> DNA

<213> Homo sapiens

<400> 2217

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gcaactgtgg tgcaaaatga gcagtagtgt gatttcatac caagacttgg tgaagtgttt	180
cacattgatc atccagagtc tacaacgtgg tgatatacag ccatggctcc atagtgggaag	240
taacagttta ctaagtaagc tcattcatca gtcttatcat ggaacatgg acacagtttc	300
tctcagtggg actattccag ttcaaagtgt tttggaaatt ggtttggaca aactaaagaa	360
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atgggagagt ggaaatatat agtggtcaaa agaagattaa gacagtttgg caactgagtg	720
acagctcacc catagaccat ctgaattttc acaaacctga tttttcggaa ttaacactta	780
acggtagcct ggaagaaagg atattcttta ctaacatggg tacctgcanc aagtgcattt	840
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<210> 2218

<211> 746

<212> DNA

<213> Homo sapiens

<400> 2218

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gccaactgga gaacagcctg agagagacct gggagttgga ggagttcang gaagggatag 660
aggaagagga tcaagaggaa gataagaaca ttgntgntga tgacatcaca gaacagaaac 720
cagagcctta ggatgatggg aaaagt 746
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<210> 2219

<211> 768

<212> DNA

<213> Homo sapiens

<400> 2219

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cccatcagtt tccaagacct tccgctcaac atctatatgg tcatctttgg cacaggcatc 540
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 ggcacagagt gatcgatacg gatataagga ggtggtgctt aaaggatgatg ccaagaagtt 660
 acaattatat gggcagacct gcgcaatctg tctggaagac ttcaagggga aggatgaatt 720
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<210> 2220

<211> 754

<212> DNA

<213> Homo sapiens

<400> 2220

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 ccaattttct aaaatgatat ggagctctga aaggcatgtc cataaggctt gacaacagct 120
 tgccaaattt ggtagtcct tggatcagag cctgttgtgg gaggtaggga ggaaatatgt 180
 aaagaaaaac aggaagatac ctgcactaat cattcagact tcattgagct ctgcaaactt 240
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 ccacttgaga taggttggtc atcgtgcaga aggccccagg acctcagcac acacagcctn 600
 ctcttggtct gagtaggcac catgtggggg ccagatctgc ctgctggttc catgggttac 660
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 ccaactgggtt gatttaattg gaaatttcag ttctg 754

<213> Homo sapiens

<400> 2221

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gcatacttag ataaaagtcc ccaattcaga aatattgaag gagcagtatt gatcttttta 180
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<210> 2222

<211> 796

<212> DNA

<213> Homo sapiens

<400> 2222

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attgctctaa actgtatggt gaagttggcc aagggcaggc cccatcttag ccagtcagta 180
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 gtgagtttgg ctactgtgat ttttgttgca agtcagaagg cattgtctgt ggaaagtaag 420
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 gctgaatctt taaaattcta tcacaaaggg attgcttctt aacagcagct agtacaccac 720
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<210> 2223

<211> 702

<212> DNA

<213> Homo sapiens

<400> 2223

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<210> 2224

<211> 871

<212> DNA

<213> Homo sapiens

<400> 2224

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<210> 2225

<211> 706

<212> DNA

<213> Homo sapiens

<400> 2225

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<210> 2226

<211> 806

<212> DNA

<213> Homo sapiens

<400> 2226

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<210> 2227

<211> 814

<212> DNA

<213> Homo sapiens

<400> 2227

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 tgnctggatc tataactgng gaaccatcag agaatctaca atccctgatg gagaaagaat 780
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<210> 2228

<211> 772

<212> DNA

<213> Homo sapiens

<400> 2228

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agagaagcaa gcgttgaaaa ctcaactgaa gcaacttgag acacagaaca ataatttgca 180
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caagaaactt tgtggtgaaa atgataggct gaatcatacc tatagtcaac ttttaaaaga 720
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<210> 2229

<211> 773

<212> DNA

<213> Homo sapiens

<400> 2229

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<211> 826

<212> DNA

<213> Homo sapiens

<400> 2230

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<210> 2231

<211> 804

<212> DNA

<213> Homo sapiens

<400> 2231

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<210> 2232

<211> 743

<212> DNA

<213> Homo sapiens

<400> 2232

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<210> 2233

<211> 829

<212> DNA

<213> Homo sapiens

<400> 2233

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<210> 2234

<211> 853

<212> DNA

<213> Homo sapiens

<400> 2234

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<210> 2235

<211> 853

<212> DNA

<213> Homo sapiens

<400> 2235

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<210> 2236

<211> 850

<212> DNA

<213> Homo sapiens

<400> 2236

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<210> 2237

<211> 839

<212> DNA

<213> Homo sapiens

<400> 2237

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<210> 2238

<211> 822

<212> DNA

<213> Homo sapiens

<400> 2238

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<211> 854

<212> DNA

<213> Homo sapiens

<400> 2239

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<210> 2240

<211> 755

<212> DNA

<213> Homo sapiens

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<210> 2241

<211> 814

<212> DNA

<213> Homo sapiens

<400> 2241

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<210> 2242

<211> 845

<212> DNA

<213> Homo sapiens

<400> 2242

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<211> 843

<212> DNA

<213> Homo sapiens

<400> 2243

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<210> 2244

<211> 804

<212> DNA

<213> Homo sapiens

<400> 2244

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<210> 2245

<211> 880

<212> DNA

<213> Homo sapiens

<400> 2245

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<210> 2246

<211> 853

<212> DNA

<213> Homo sapiens

<400> 2246

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<210> 2247

<211> 750

<212> DNA

<213> Homo sapiens

<400> 2247

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<210> 2248

<211> 730

<212> DNA

<213> Homo sapiens

<400> 2248

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 ctctgagggt agccataatg aagaggccaa agaaccgat aagacaaata agaaagaagg 480
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atctgctaga ccaggtactc cttcagacca tcagtctcag gaagcatcac agtttgagag 600
gaaagatgaa ccaaaaactg agcaaacgga aaaagctgaa naggagactc ggatggaaaa 660
tagtctacca gccaaagtgc ccagcanagg ggatgaaatg ggttgcttga tgtccagcan 720
ccccttgctg 730

<210> 2249

<211> 660

<212> DNA

<213> Homo sapiens

<400> 2249

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agtaagtggg agagctggag ttcacatcca ggcagtaggc tccaaggtct gtgctcttaa 540
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<210> 2250

<211> 843

<212> DNA

<213> Homo sapiens

<400> 2250

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aattcagtat gataacatgg gtcgggtaac caagagagag attaaaatag ggccctttgc	180
caacaccacc aaatatgctt atgaatatga tgttgatgga cagctccaaa cagtttacct	240
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aatctttgaa tatagctcca aggggcttct aactcgagtt tacagtaaag gcagtggctg	480
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ggctgtgntc agtancaatg ggcttatgct gaaacagatt cagtcactgc atatggggaa	780
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<210> 2251

<211> 774

<212> DNA

<213> Homo sapiens

<400> 2251

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catcgacttt gacatagagg agtttgccaa ggatgtgggg gcgcagatcc tcctgcacag	420

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<210> 2252

<211> 819

<212> DNA

<213> Homo sapiens

<400> 2252

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<210> 2253

<211> 680

<212> DNA

<213> Homo sapiens

<400> 2253

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<210> 2254

<211> 699

<212> DNA

<213> Homo sapiens

<400> 2254

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atgctgtggc tccaggtctc tgggtgtgaa gcagagcaag cctggtttgt cctcctcctg  240
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<210> 2255

<211> 739

<212> DNA

<213> Homo sapiens

<400> 2255

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<210> 2256

<211> 785

<212> DNA

<213> Homo sapiens

<400> 2256

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<210> 2257

<211> 863

<212> DNA

<213> Homo sapiens

<400> 2257

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<210> 2258

<211> 781

<212> DNA

<213> Homo sapiens

<400> 2258

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<210> 2259

<211> 775

<212> DNA

<213> Homo sapiens

<400> 2259

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<210> 2260

<211> 769

<212> DNA

<213> Homo sapiens

<400> 2260

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tgaggagata gagaggaagc tgaacgtcta ccacaaggga gccaaagatct ggaaaatgct   720
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<210> 2261

<211> 858

<212> DNA

<213> Homo sapiens

<400> 2261

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gagtcgtcat tagttgggtg ttgcaatata gttcagcaag aatgggggtg tgcaattcct   420

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tgccaggttg tcctggtgac agacggctgt cttggcattg gtagagggtc actgcgacat 480
 tccctagcca ctcaaaatca acgaagtgag agcaacaggt ttccactacc ttttcctttc 540
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 atacgccttt ccatgctggt ctcaagtgtg gncacctaac tgctgatgta caagtctttc 780
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 cccagatttg ggaaatan 858

<210> 2262

<211> 833

<212> DNA

<213> Homo sapiens

<400> 2262

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 gcacaaatag aggaaccgga tctccagaa atggaaactt ctcttgattc ttctgagatg 180
 gcaaaagatc tctcttcaaa aacagcttta tcttcaccg agtcgtgtac catgaaagg 240
 gaagagaagt ctccaaaac taagaaggat aagcgccac caatcctaga atgtcttgaa 300
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 ccagaagaag ttccaaagag tactctagag tcagaaaagc ctggctctcc tgaggcagct 420
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 aaatataagt tggttcctga agaagaaacc ctgcctcaga aaatacagag ataacctctg 720
 aaaggcagaa agagggcatc aaattaacaa tcaggatata aagtcggaaa aagaaccgga 780
 ttcttcccc aaagttctag aaccggaaaa ccagcngaa gaagancgga aaa 833

<210> 2263

<211> 812

<212> DNA

<213> Homo sapiens

<400> 2263

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tggcgggagg ggcacaggtc tcctgtacgc cctagactag gggccgccat ctccatggcc  180
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atgaatatca tctttttttc ctactgactg gagcatttat gggctatagc tatagcctcc  720
tggatttttg taacaacatg aactatcttn catttcccat catacagcaa tacaagtctt  780
gcgtttaaga aancctctgnt cttatagtta ac                                     812

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<210> 2264

<211> 757

<212> DNA

<213> Homo sapiens

<400> 2264

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tgcgccacca gcgcacacac acgggcgaga agccgtacgc atgtggcgac tgtggacgct 660
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atgcgtgcgc cactttgcgg gaaagggttt cgggnan 757

<210> 2265

<211> 851

<212> DNA

<213> Homo sapiens

<400> 2265

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cagaaccacg ctggtaaaaa cagatgctgc acaaagtga cttgcccgtt ttcacgcac 180
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aagtgcata gaataaaaa atatatatg agtgatggtt aatactgact gtcaacttga 360
ttggattgaa ggatgcaaag tattgatcct ggggtgtgtc gtgagggtgt tgccaaagga 420
gattaacatt tgagtcagtg ggctgggaaa gttcgacca ctgttaatct agatggacac 480
catctaata gatgccagtg cagctagaaa tgtaaagcag acagaaaaat gcgaaaagag 540
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acatcagact ccaagttctt cagtttggga cttggactgg ctctccttgg tcctcagctt 660
gaagactgcc cattgtggga cttgtgatca tgtgctcagg aagtatgtgt ggacttttgn 720
catgggttga atagtgtccc tcgcaaagtt cacgtccaca tggaacccgt gaatgtgacc 780
cgntgtggnt tgaatgcttc tggcaaaact taatcccat gcaccattcc aangaaatag 840
ggtcttttagg a 851

<210> 2266

<211> 815

<212> DNA

<213> Homo sapiens

<400> 2266

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gctgaagcag ctcatccacc agcagctgag caagatggat gtccatggta gaataagaga 180
aatccttgct gagactatac gggaagaatt ggcacctgat caacagcatt tatcaacaga 240
agatttgatc aaagccctta gacgtcgagg aatcattgac gatgtgatga aagaacttaa 300
ttttgttact gacagtgttg agcaagaact cccttcctct ccaaaacaac ctatttgttt 360
tgatagacaa tcgacattaa aaaaaactaa tattgatcca acacggaggt atctttacct 420
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tccaattcat atgggctaata caaaacagac atatttggtg agacgacttt agtagcatca 720
tattttcttg aatggcgatc ggntttgggc tcanaaaatg gagtgccagt ctgactgtgg 780
acttatgggt gtaggcncag aatcaaaagt ttctg 815

<210> 2267

<211> 790

<212> DNA

<213> Homo sapiens

<400> 2267

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ggtgcgctcc aattcacggt ggtttccaag cgcattcttg aggagaaaac acatgagtgt   180
gtggtcaggg ttctctgccg acagacctac cgtggggaag aaagagaagt tctgaagatg   240
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gtcataaaac ccccaggaga cgaagatgat ggcacgtcgt gaccccaaac ctggggcaaa   420
gagactggtg agagcccaga cctccagaa gcagcggagg gccccagttg ggccaagggc   480
tccccgccc gatgaagaag atcccaggct caagtgcaaa aactgtgagg cctttggcca   540
cacggccaga agtaccaggt gcccctgaa gtgctggaag gcagccctgg ttccaccgaa   600
ctttggggaa aaggaaggga aggaaaacct gaaaccatgg aagccccagg ttgaagcgaa   660
ccctggccct tgaacaagga taaggagag aaggaagaga gaccaaggcc acaagaccg   720
canaggaagg ctcttcttca catattttnc gggaaacctt cagagaacct gttgccnaat   780
caaaaaggat                                     790

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<210> 2268

<211> 694

<212> DNA

<213> Homo sapiens

<400> 2268

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tctctttaat gatggaggga agcaggcaga cgcgagtgtc tcggccatac aagatcagcg   60
aatcatcaaa ggtataccgc tgggccgacc actcaagcac ggtgctgcag cggctgaacg   120
agcagcgtct ccgcgggctc ttctgcgacg tcgtcctggt ggccgatgag cagcgtgtgc   180
cagcccatcg caacctgctg gccgtgtgca gcgactactt caactccatg ttcaccatcg   240

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gcatgcggga agctttccag aaggaggtgg agctgatcgg cgcctcctac attgggctca 300
 aggccgtggt ggacttcctg tacggcgggg agctgggtgct ggatggcggc aacattgact 360
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 tgtcctttac gcccgaactc ctgcagaacg tctccatgca gaagctgtgt gtctacctga 600
 gcagcancga ggtgcagcgg gagtgtgagc acgaccttct gcangccgcc ctgcantggc 660
 tgacgcaaca gcccgagcgc gaggcccacg cccg 694

<210> 2269

<211> 776

<212> DNA

<213> Homo sapiens

<400> 2269

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 aagaacttct gttaagaata ttttccttct tggatatagt aactttgtgc cgatgtgcac 180
 agatttccaa ggcttggaac atcttagccc tggatggaag caactggcaa agaatagata 240
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 tcaactgacag cacgtgttat agccttagca gattctgttc caagctgaaa catctggata 480
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 atgaagctct gaaacacatt cagaattact ggcatgagct tgtgagcctc aacttgcagt 720
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<210> 2270

<211> 796

<212> DNA

<213> Homo sapiens

<400> 2270

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ccccatctcc gccgctcccc gcagcctccg ccgagcgcca tggctcctag gaagggcagt  120
agtcgggtgg ccaagaccaa ctccttacgg aggcggaagc tcgcctcctt tctgaaagac  180
ttcgaccgtg aagtggaaat acgaatcaag caaattgagt cagacaggca gaacctctc   240
aaggagggtg ataacctcta caacatcgag atcctgcggc tccccaaggc tctgcgcgag  300
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acagctgacc tggatatcac cgaaataaac aaactaacag cagaagctat tcagacaccc  420
ctgaaatctg ccaaaacacg aaaggtaata caggtagatg aaatgatagt ggaagaggaa  480
gaagaagaag aaaatgaacg taagaatctt caaactgcaa gagtcaaaag gtgtcctcca  540
tccaagaaga gaactcagtc catacaagga aaaggaaaag ggaaaaggtc aagccgtgct  600
aacactgtta cccagccgt gggccgattg gaggtgtcca tgggtcaaacc aactccaggc  660
ctgacacca ggtttgactc aagggtcttc aagaccctg gcctgcgtac tccagcagca  720
ggagancgga ttacaacat cttaaggga tggcaagccc ttttgcttga cagcnaaaga  780
gatenttcct taattg                                     796

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<210> 2271

<211> 826

<212> DNA

<213> Homo sapiens

<400> 2271

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cagcgagttg aactttagga gagctgtgtt ctctgcagat tctaagtata tcttctgtgt  120

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ctctggagac tttgttaaag tttacagcac agttacagaa gagtgtgtac acatactgca 180
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 ggaagactgc atcgcatctg ggcacatgga tggcaaaant cgnctttgga ggaaatttta 720
 tgatgataga aatatacgta cccatgttta cattggcacc atgatatggg tatggatttg 780
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<210> 2272

<211> 767

<212> DNA

<213> Homo sapiens

<400> 2272

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 aggggatgag tgtgagcccg agtggtgtga tgccgaggac ccactcttca tcctgtacac 180
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ccagcgctgc cccatcgtgg acaccttctg gcaaacagag acaggtggcc acatgttgac 660
tcccccttct ggtgccacac ccatgaaacc cggttctgct actttccatt ctttgngta 720
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<210> 2273

<211> 804

<212> DNA

<213> Homo sapiens

<400> 2273

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cggcggggct gctaccacc agcatcctcc aaagcactga acgcccggcc caggtgaaga 180
aagaaccgaa aaagaagaaa caacagttgt ctgtttgcaa caagctttgc tatgcacttg 240
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ttncaggacc tcaatagctc tacaggtagc ttnacaaaat ggccaacat acacatggga 780
ccacttacac aggggaacnc caaa 804

<210> 2274

<211> 755

<212> DNA

<213> Homo sapiens

<400> 2274

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 ggccggctgg atgaagcccg acagatgctc ttcaaggaag cccgatgcca gncccgccn 720
 tgcangcata tgccgaatca tgggggacct gatga 755

<210> 2275

<211> 727

<212> DNA

<213> Homo sapiens

<400> 2275

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 aaccgtcctg tggaggtgta ccagtacagc acaggtactt ctgcagtgga acccatcaac 180
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 ccgcggcagc ggagttcagc ctgcgtcacct gagcacctg agctgcatgc tgaattgggc 660
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<210> 2276

<211> 805

<212> DNA

<213> Homo sapiens

<400> 2276

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 tcagtattgc tccagagaac ctgcagcatg acatcatcac cagcctacct gagatcctag 180
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 ttctctggca ttacttaatt cttaa 805

<210> 2277

<211> 746

<212> DNA

<213> Homo sapiens

<400> 2277

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atatttgaaa cacatgctac tgtaactccg tgcttcaggc attgtacttc tgccgtccat  180
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caaagaagtt catttcaagg ctgagaaaag agaattgatct ctttgataac tacatgcagc  360
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ctgttgatgt ggagcagaat acatccatta cccactgtct aagagacttc agcaacacag  660
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<210> 2278

<211> 817

<212> DNA

<213> Homo sapiens

<400> 2278

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ttgcaaaacc gcttttaata aaaccgggtt ccaagaagtg tttgatcctc ctcattatga  180
actgttttca ctaagggaca aagagatttc tgcagacctg gcagacttgt cggaagaatt  240
    
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ggacaactac cagaagatgc ggcgctcctc caccgcctcc cgctgcatcc acgaccacca 300
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<210> 2279

<211> 718

<212> DNA

<213> Homo sapiens

<400> 2279

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 agaagagcgg gagttttata atgccaggcg acgggagcat cgccagagga atgacgttgg 660
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<210> 2280

<211> 741

<212> DNA

<213> Homo sapiens

<400> 2280

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caatcaatgc gacctcaagt tctccaactt tgagagcttc cagaccacc tgaagctgca 180
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gccttcacgc catcatcctg ctggagaagc accttgcggg agaagcactg tgtgttgatg 720
ctgcgancga gaacggnacg g 741
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<210> 2281

<211> 799

<212> DNA

<213> Homo sapiens

<400> 2281

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ggagaggCgg ctaaggaaag gtgccacagc agagacgcga aggagaggcc ctagaacctt 180
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<210> 2282

<211> 775

<212> DNA

<213> Homo sapiens

<400> 2282

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 accttgctgt gcgtatacaa actcacaggt cacaaaaacc ctacaaatgt aaggaatgtg 180
 gaaaaggatt tagatattct gcatacctta atattcacat gggaaccac actggagaca 240
 atccctatga gtgtaaggag tgtgggaaag cttcaccag gtcttgtaa cttactcagc 300
 acagaaaaac tcacactgga gagaaacctt ataaatgtaa ggattgtggg agagccttca 360
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 gcaaggaatg tgggatagcc ttcactagat cttctcaact tactgaacat ttaaaaactc 480
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ggccctatga atgtaangaa tgtggaaagg cctttgccag atcctctngc cttaatgaac 720
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<210> 2283

<211> 748

<212> DNA

<213> Homo sapiens

<400> 2283

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cctctcgggt ctggttgcct tttgcagttt gggttgtgga ctgagctcct gtgaggggtc 180
tggttaggag agagccattt ttaaggacag ggagttttat agcccttttc tactttcctc 240
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<210> 2284

<211> 874

<212> DNA

<213> Homo sapiens

<400> 2284

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ccaaatgcat atttgggcat tagaaggtct gtcgcactta gtagcagcat catttacaga  180
ggatagattt ggagttgtcc agacgacact accagctatc ctttaatactt tgttgacact  240
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tacagaagca ttgatggcag tcgaaatgtc tctagctcat ataacttaat agtaataact  780
aaaaaacttt tagaatttac ttttgaaagg agggaagcca gtctgaaatg agtatagggt  840
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<210> 2285

<211> 807

<212> DNA

<213> Homo sapiens

<400> 2285

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tgctggggat tccattgtaa gcacctataa tcgggaattt tcatgtaaca gctttgacat  180
ttaaacattc tgagtttggt gccagctcag atttgattat attttatattt ggatgggtgt  240
aattcacagc acagttctaa tctcccaaat ctttctgctt tttagaatga agtataaaat  300
acttttctca cctgaatacc aagggttggc ctttagttg gatcattgtc atatgacttg  360

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 cattagtttg tactttgaca agtaattatg aattttggtg cttattttgc aaaggatgct 720
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<210> 2286

<211> 857

<212> DNA

<213> Homo sapiens

<400> 2286

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 tgccttttatt ggcagctggt ttctttctaca agtcccaagt tagggatctg gatatttcct 780
 cattttaata tagngggaat tgctaaaaaa acttattgaa nggtcintgg ggacttggcc 840

tatctatgga atgatgc

857

<210> 2287

<211> 782

<212> DNA

<213> Homo sapiens

<400> 2287

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caccgcggag ggcttcaccg acattgacct ggacacgctg gtggctgtcc tggagcgca 180
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caaggaaccc ggtggaagtg cttgnccaac gtcaactaca cggnccttggt gccacgcttc 780
aa 782

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<210> 2288

<211> 856

<212> DNA

<213> Homo sapiens

<400> 2288

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cgacgtnatg cttaaa 856

<210> 2289

<211> 835

<212> DNA

<213> Homo sapiens

<400> 2289

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 gacatcaatg ccaacaagga aaactgcttc ggtgctcgac tgggtaccca actgggggnat 780
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<210> 2290

<211> 819

<212> DNA

<213> Homo sapiens

<400> 2290

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<210> 2291

<211> 733

<212> DNA

<213> Homo sapiens

<400> 2291

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tcatttgggt tca 733
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<210> 2292

<211> 845

<212> DNA

<213> Homo sapiens

<400> 2292

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 ccttgcatte tcttctgggc caaaagaata atgattaaat ttaagaatca aacctgctgg 780
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<210> 2293

<211> 860

<212> DNA

<213> Homo sapiens

<400> 2293

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<211> 854

<212> DNA

<213> Homo sapiens

<400> 2294

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<210> 2295

<211> 786

<212> DNA

<213> Homo sapiens

<400> 2295

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<210> 2296

<211> 760

<212> DNA

<213> Homo sapiens

<400> 2296

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<210> 2297

<211> 803

<212> DNA

<213> Homo sapiens

<400> 2297

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<210> 2298

<211> 874

<212> DNA

<213> Homo sapiens

<400> 2298

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<210> 2299

<211> 858

<212> DNA

<213> Homo sapiens

<400> 2299

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<210> 2300

<211> 851

<212> DNA

<213> Homo sapiens

<400> 2300

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<210> 2301

<211> 755

<212> DNA

<213> Homo sapiens

<400> 2301

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755

<210> 2302

<211> 807

<212> DNA

<213> Homo sapiens

<400> 2302

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<210> 2303

<211> 802

<212> DNA

<213> Homo sapiens

<400> 2303

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<210> 2304

<211> 584

<212> DNA

<213> Homo sapiens

<400> 2304

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<210> 2305

<211> 803

<212> DNA

<213> Homo sapiens

<400> 2305

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<210> 2306

<211> 822

<212> DNA

<213> Homo sapiens

<400> 2306

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<210> 2307

<211> 868

<212> DNA

<213> Homo sapiens

<400> 2307

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<211> 844

<212> DNA

<213> Homo sapiens

<400> 2308

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tctt

844

<210> 2309

<211> 721

<212> DNA

<213> Homo sapiens

<400> 2309

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<210> 2310

<211> 755

<212> DNA

<213> Homo sapiens

<400> 2310

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<210> 2311

<211> 746

<212> DNA

<213> Homo sapiens

<400> 2311

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<210> 2312

<211> 818

<212> DNA

<213> Homo sapiens

<400> 2312

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<210> 2313

<211> 767

<212> DNA

<213> Homo sapiens

<400> 2313

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<210> 2314

<211> 768

<212> DNA

<213> Homo sapiens

<400> 2314

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<210> 2315

<211> 775

<212> DNA

<213> Homo sapiens

<400> 2315

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<210> 2316

<211> 738

<212> DNA

<213> Homo sapiens

<400> 2316

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cgnaaagggc tctnttac 738

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<210> 2317

<211> 841

<212> DNA

<213> Homo sapiens

<400> 2317

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<210> 2318

<211> 707

<212> DNA

<213> Homo sapiens

<400> 2318

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ttgtctgcgc atgttgggca ttctgntgct gcacagatat caaacaacat gacagagaaa 660
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<210> 2319

<211> 773

<212> DNA

<213> Homo sapiens

<400> 2319

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<210> 2320

<211> 717

<212> DNA

<213> Homo sapiens

<400> 2320

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<210> 2321

<211> 740

<212> DNA

<213> Homo sapiens

<400> 2321

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740

<210> 2322

<211> 824

<212> DNA

<213> Homo sapiens

<400> 2322

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<210> 2323

<211> 787

<212> DNA

<213> Homo sapiens

<400> 2323

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<210> 2324

<211> 661

<212> DNA

<213> Homo sapiens

<400> 2324

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<210> 2325

<211> 863

<212> DNA

<213> Homo sapiens

<400> 2325

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<210> 2326

<211> 747

<212> DNA

<213> Homo sapiens

<400> 2326

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<210> 2327

<211> 781

<212> DNA

<213> Homo sapiens

<400> 2327

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gacatittat ttccttacat cgaagaaaat gttaaagagt atctgcagac acattgggaa 360
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<210> 2328

<211> 850

<212> DNA

<213> Homo sapiens

<400> 2328

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gggcaccctt 850

<210> 2329

<211> 849

<212> DNA

<213> Homo sapiens

<400> 2329

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tctttatgc 849

<210> 2330

<211> 908

<212> DNA

<213> Homo sapiens

<400> 2330

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cattgcattg actctaaatc aaggncattt tcatccagtt caatgtgtgc catatttaat 780
tgctatgggc acagaccag aacctgctat gcngaacaag gctgatcagc aacttgnggg 840
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ttaccagg 908

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<210> 2331

<211> 805

<212> DNA

<213> Homo sapiens

<400> 2331

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aaaaaaaaa aaaaaaaaaat ataatccaca cctactactc aataccttag aaaatcttcg 60
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tgactgtttc ttggggcttc atgacagaaa gatgtgtgtt ctcggactct gtgctcttat 180
tgatatggaa cagatacccc aagtttttaa tcaggtttct ggacagattt tgccggcttt 240

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<210> 2332

<211> 761

<212> DNA

<213> Homo sapiens

<400> 2332

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 ttaaataatta taatccatat ccagtcaaat atgttggaag acctgataaa gactctaaaa 660
 aatgctgcan aaggaaatta tcaaaatttg ngaaaagaca tgtgttctcg gangaagtgc 720

tggccaaagt gagggaaaaa gtgaaggatg tgcctgcctt t

761

<210> 2333

<211> 843

<212> DNA

<213> Homo sapiens

<400> 2333

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 ggagcccaag gatgaggcac agaatgaggg cccggctaca gagtcagagg ccccgtgaa 180
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<210> 2334

<211> 784

<212> DNA

<213> Homo sapiens

<400> 2334

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ttgg                                     784

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<210> 2335

<211> 843

<212> DNA

<213> Homo sapiens

<400> 2335

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tcttttcaac cttatgcagg agtatacctga tgaccgcaca tctcggactc taactcttat  180
tgccaaggtc attcagaacc tggccaactt tgccaagttt ggtaacaaag aggaatacat  240
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gatctctaata ccagacacca tctcaaacac cccaggcttt gatggttaca ttgatctggg  360
ccgagagcct tcagttttgc attccttact gtgggaagta gtttcccaac ttgataaggg  420

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 tattctgaaa aggatgaaag gggaaagtag cctnctaat gggcngacgt cttccttatg 780
 gaccttcagg acactcatgc tggtagagt gagcatgcat ctggcatgcc tgatngcct 840
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<210> 2336

<211> 755

<212> DNA

<213> Homo sapiens

<400> 2336

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<210> 2337

<211> 828

<212> DNA

<213> Homo sapiens

<400> 2337

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<210> 2338

<211> 594

<212> DNA

<213> Homo sapiens

<400> 2338

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aacatcacgg atattaagac tgcagccaag gaattgttaa aaaaggtgaa atttattcct 180
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<210> 2339

<211> 736

<212> DNA

<213> Homo sapiens

<400> 2339

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 aagaaaaaga gctaaattta ccaagccatg ttggttttta ctaaatacca atggaattgg 720
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<210> 2340

<211> 840

<212> DNA

<213> Homo sapiens

<400> 2340

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taacttagag atcattcatg gaattgatct aaacctattc ttggaagctt taaccttggg 780
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<210> 2341

<211> 720

<212> DNA

<213> Homo sapiens

<400> 2341

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<210> 2342

<211> 724

<212> DNA

<213> Homo sapiens

<400> 2342

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724

<210> 2343

<211> 667

<212> DNA

<213> Homo sapiens

<400> 2343

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<210> 2344

<211> 779

<212> DNA

<213> Homo sapiens

<400> 2344

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<210> 2345

<211> 850

<212> DNA

<213> Homo sapiens

<400> 2345

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<210> 2346

<211> 859

<212> DNA

<213> Homo sapiens

<400> 2346

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<210> 2347

<211> 832

<212> DNA

<213> Homo sapiens

<400> 2347

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<210> 2348

<211> 890

<212> DNA

<213> Homo sapiens

<400> 2348

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<210> 2349

<211> 745

<212> DNA

<213> Homo sapiens

<400> 2349

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<210> 2350

<211> 891

<212> DNA

<213> Homo sapiens

<400> 2350

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<210> 2351

<211> 664

<212> DNA

<213> Homo sapiens

<400> 2351

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<210> 2352

<211> 800

<212> DNA

<213> Homo sapiens

<400> 2352

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<210> 2353

<211> 751

<212> DNA

<213> Homo sapiens

<400> 2353

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<210> 2354

<211> 784

<212> DNA

<213> Homo sapiens

<400> 2354

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<211> 777

<212> DNA

<213> Homo sapiens

<400> 2355

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<210> 2356

<211> 812

<212> DNA

<213> Homo sapiens

<400> 2356

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812

<210> 2357

<211> 873

<212> DNA

<213> Homo sapiens

<400> 2357

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<210> 2358

<211> 695

<212> DNA

<213> Homo sapiens

<400> 2358

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<210> 2359

<211> 868

<212> DNA

<213> Homo sapiens

<400> 2359

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<210> 2360

<211> 759

<212> DNA

<213> Homo sapiens

<400> 2360

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<210> 2361

<211> 792

<212> DNA

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<210> 2362

<211> 916

<212> DNA

<213> Homo sapiens

<400> 2362

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<210> 2363

<211> 778

<212> DNA

<213> Homo sapiens

<400> 2363

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<210> 2364

<211> 737

<212> DNA

<213> Homo sapiens

<400> 2364

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<210> 2365

<211> 774

<212> DNA

<213> Homo sapiens

<400> 2365

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<210> 2366

<211> 768

<212> DNA

<213> Homo sapiens

<400> 2366

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<210> 2367

<211> 871

<212> DNA

<213> Homo sapiens

<400> 2367

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<210> 2368

<211> 803

<212> DNA

<213> Homo sapiens

<400> 2368

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<210> 2369

<211> 821

<212> DNA

<213> Homo sapiens

<400> 2369

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<210> 2370

<211> 861

<212> DNA

<213> Homo sapiens

<400> 2370

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<210> 2371

<211> 859

<212> DNA

<213> Homo sapiens

<400> 2371

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<210> 2372

<211> 865

<212> DNA

<213> Homo sapiens

<400> 2372

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<211> 859

<212> DNA

<213> Homo sapiens

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<211> 785

<212> DNA

<213> Homo sapiens

<400> 2374

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 ccgcaagtct actctcacga cccacctgag gacccacaca ggagagaaac cgtatgaatg 720
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<210> 2375

<211> 852

<212> DNA

<213> Homo sapiens

<400> 2375

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 aggaagggga gctttcgcta tccagtccac caagccctga gccagactgg aacttgattt 240
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<210> 2376

<211> 829

<212> DNA

<213> Homo sapiens

<400> 2376

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caggaggaag aagacaacga ataaacttcc ttnaaccag gaagcgtctt tgggtgcttgg 720
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<210> 2377

<211> 723

<212> DNA

<213> Homo sapiens

<400> 2377

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caatatgtta cactcctaatt ctgcattttt taaatgcata ggccgtttaa cttagcacag 240
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<210> 2378

<211> 854

<212> DNA

<213> Homo sapiens

<400> 2378

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<210> 2379

<211> 856

<212> DNA

<213> Homo sapiens

<400> 2379

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tgtccacact ttaccttcc cacagactga attctttgca gtaacagctt atcagaacat 180
tcagattact cagctgaaaa tagattacaa tccatttgcc aaaggcttcc gggatgatgg 240
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<210> 2380

<211> 830

<212> DNA

<213> Homo sapiens

<400> 2380

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tcttcatggg gagaagatga gtcttgaaat atcaagacaa ttgcagaang ctgtgccctg  780
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<210> 2381

<211> 840

<212> DNA

<213> Homo sapiens

<400> 2381

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<210> 2382

<211> 848

<212> DNA

<213> Homo sapiens

<400> 2382

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848

<210> 2383

<211> 820

<212> DNA

<213> Homo sapiens

<400> 2383

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gtcttccttg cagacacaga tgggttgggt tcacctgcag tttcatgctg gtcaagcctg 780
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<210> 2384

<211> 881

<212> DNA

<213> Homo sapiens

<400> 2384

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<210> 2385

<211> 832

<212> DNA

<213> Homo sapiens

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 gactatggac attttcaata taattctgng agtcttggct ttgcttttgn ggggtgggtct 780
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<210> 2386

<211> 780

<212> DNA

<213> Homo sapiens

<400> 2386

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<210> 2387

<211> 801

<212> DNA

<213> Homo sapiens

<400> 2387

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<210> 2388

<211> 601

<212> DNA

<213> Homo sapiens

<400> 2388

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gatgactttg ccaagtcacc taaactctgg atctcagtca ctttttgtcc tacattcctc   180

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<210> 2389

<211> 736

<212> DNA

<213> Homo sapiens

<400> 2389

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 aacacggact cggacacgga aggttttctt cttggggaag taaaaggatga agccaagaac 180
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 ggttcctgta tgtccactgg ttttagccga gcagtacaaa cacacagctc taaatttttt 660
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<210> 2390

<211> 717

<212> DNA

<213> Homo sapiens

<400> 2390

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gttaaagtat atcaagtgtg ctaaagaacc tggactaaat ggactaattc tganagagaa   660
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<210> 2391

<211> 687

<212> DNA

<213> Homo sapiens

<400> 2391

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagaattg actcgcgcc tcgtccgccg   60
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agccagaaga aaatcaggtc ctggctcccc agaagcaaga gagttcaa at gaaggaagga   180
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 atccacagtc cagcccaccc agaaattgag aaagctgatg atcatctgca gcanccttg 600
 caaaaccaa aaatactgaa gaggacggga caacgctntg aacacggaag aactttgaaa 660
 tcatatttag gttaaccca ccngagc 687

<210> 2392

<211> 826

<212> DNA

<213> Homo sapiens

<400> 2392

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 gcttattcca tatactttct acattatagc ctttcttttg ttactaaaa aggcatagtc 180
 actcgcaaat ctagtattga atacattcaa aatccattga agataaccaa ataagctttt 240
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 ctcatacata cttaatagga acactaagaa aaagcctgca gatgtctttt ctttaaaaac 480
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 cattttagtt actacctcat ttgtctcctg gaagtctttc ttttctaaat gctacattct 660
 gcagacatat tcagcccatg cttttctagc tcagttattc ctacgcaaaa agttaattta 720
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<210> 2393

<211> 801

<212> DNA

<213> Homo sapiens

<400> 2393

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acttgccgaa gcatgaacga agccatccct agtggcaagg agacttccat cgagctggat   60
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cgtgttgtct ttacctgcca ggccacagcc aaccccgaga tcttgggcta caggtgggcc  180
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cgggaggtgc cgctctatgt gaacgggccc cccatcatct ccagtgaggc agtgcagtat  660
gctgtgaggg gtgacggtgg caaggtggag tgtttcattg ggagcacacc acccccagac  720
cgnatancat ggcctggaag gagaacttct tggaagtggg gaccctggaa cgctnttcag  780
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<210> 2394

<211> 858

<212> DNA

<213> Homo sapiens

<400> 2394

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gaaaccatgg tcaggtggtc tcttacctgt taaaatcagg agctgacaaa gaaaagttgg   60

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 gaaactcagg atgacgatac ctaagactga aagaaaatac ttttaccata gaaaatgaaa 780
 gtggtaaaat acatttgctg gtactctgga nacagtgcga acccggtcat gaaactgggt 840
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<210> 2395

<211> 788

<212> DNA

<213> Homo sapiens

<400> 2395

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 gtttcccgca gaaaaggaaa gcgaatggaa aggcccattc tacttcatcc tgggcgcaga 180
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 atcgtcttcc agcacatccg ctgtcctgga gagcatcgac gaggacgacg actactactt 720
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<210> 2396

<211> 786

<212> DNA

<213> Homo sapiens

<400> 2396

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 atgggaaaga gatcacattc ttggaatact acagcaaaaa ttatgggatc acagttaagg 180
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 ccaatgaact gatgcgttgg gggctccgtc tgcaaaagga tgtacataag attgaaggac 480
 gtgttctgcc aatggaaaga attaacttaa aaaatacttc gtttatcaca tctcaggaa 540
 taaactgggt taaggaagta accagagacc cttccatctt gactatcccc atgcatttct 600
 gggcactttt ttacccaaag agagcaatgg accaggctcg agaactggtc aacatgttgg 660
 agaagatagc cggccccatt ggcatgcgta tgagcccacc cggcctgggt tgaactaaag 720
 gatgaccgga attgagactt atgtcagaac cattcaatcc acgttaggag ctnangggaa 780
 aatccn 786

<210> 2397

<211> 838

<212> DNA

<213> Homo sapiens

<400> 2397

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tatatgaaga ggctgaggct gacaacgaag aaagcgacaa ggactcattg aatgaaatgt 180
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gatgtatata tcagatggta aagtcattct attctcttgg nctaancaag agttctaagt 780
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<210> 2398

<211> 762

<212> DNA

<213> Homo sapiens

<400> 2398

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tgggctacca gtgggctccc atcctagcca acttcctgca catcatggca gtcacctgg 60
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tgctctgggt tggctggaat gcatttatca tctgcttcta cttggagggt ggacagctgt 180

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cccaggaccg ggacttcac atgaccttca acacatccct gcaccgctcc tgggtgatgg 240
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 gtctgcatct ggagatgcgg acttggacgt ggacttggac ttggacttgg atttgaactt 720
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<210> 2399

<211> 803

<212> DNA

<213> Homo sapiens

<400> 2399

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 aaaagtcaac attgtcaagc tgtttgttta ctctttcttt gaaaacatca ctttctgaaa 180
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 gccangctgt gagaggatta tactgagtag tagaaagaac taatttgaaa taaaaattat 720

ttggataatt aagaaagcng attanatgcc catggtcaac aaggaagttg actgnatggc 780
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<210> 2400

<211> 884

<212> DNA

<213> Homo sapiens

<400> 2400

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tcaggaaatc ttacctgtat tccttaacgc caatagaaac tggaattctc cagttgctaa 180
tttcataatg gagtcacaaa gactggaatt aatcagacta atggagaccc aagaggaaga 240
tgttggtccta ctaactgctg gagagcacia taaagcatgc tctttgtag gaaaattacg 300
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gctggaatcg gcccaccacc catttactgc tccccacccc agtgacatac atctcctgta 480
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aaggttgagc ttttaggttt ggcctctttg gnttcccaag gttaagncag atctagagtc 840
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<210> 2401

<211> 742

<212> DNA

<213> Homo sapiens

<400> 2401

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accacctggc caaacacagg aagaggatcc tcctgctgga gcagttcttt ctaccacact  180
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tcacggtgaa aaccaccttc aggagctacc aagctaagag cttgggtcatc acagcangtc  660
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atcaacgtgt gttactggcc aa                                              742

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<210> 2402

<211> 898

<212> DNA

<213> Homo sapiens

<400> 2402

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gagacctctt cagtgcctgt tcaaaagtaa agcaaaccat atataataac gtgatgcctg 480
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 aatggctggg ggttctgaag gctctttggg ggtcttcaaa tcacgtgtgg gggttttaa 780
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<210> 2403

<211> 829

<212> DNA

<213> Homo sapiens

<400> 2403

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<210> 2404

<211> 665

<212> DNA

<213> Homo sapiens

<400> 2404

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ggttc 5

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<210> 2405

<211> 788

<212> DNA

<213> Homo sapiens

<400> 2405

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tgacaatata gaagattcta cagcaagatt agatacaca cactctgaag acatgaatgc    60
caccagatct gaagagcagt tccatgttat aaaccacgca gagcaaactc ttcgtaaaat    120
ggagaactac ttgaaagaga aacaactatg tgatgtgcta ctgattgcag gacacctccg    180

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catcccagcc cataggttgg ttctcagcgc agtgtctgat tattttgctg caatgtttac 240
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<210> 2406

<211> 823

<212> DNA

<213> Homo sapiens

<400> 2406

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<210> 2407

<211> 814

<212> DNA

<213> Homo sapiens

<400> 2407

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<210> 2408

<211> 831

<212> DNA

<213> Homo sapiens

<400> 2408

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<210> 2409

<211> 648

<212> DNA

<213> Homo sapiens

<400> 2409

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<210> 2410

<211> 752

<212> DNA

<213> Homo sapiens

<400> 2410

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<210> 2411

<211> 773

<212> DNA

<213> Homo sapiens

<400> 2411

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<210> 2412

<211> 831

<212> DNA

<213> Homo sapiens

<400> 2412

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caggcgggtgt gcctgctgca tgcgctgctg gagaaggac acatcgtgta cgtgcactgc 420
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<210> 2413

<211> 818

<212> DNA

<213> Homo sapiens

<400> 2413

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<210> 2414

<211> 841

<212> DNA

<213> Homo sapiens

<400> 2414

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<210> 2415

<211> 780

<212> DNA

<213> Homo sapiens

<400> 2415

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<210> 2416

<211> 638

<212> DNA

<213> Homo sapiens

<400> 2416

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<210> 2417

<211> 669

<212> DNA

<213> Homo sapiens

<400> 2417

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<210> 2418

<211> 734

<212> DNA

<213> Homo sapiens

<400> 2418

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<210> 2419

<211> 774

<212> DNA

<213> Homo sapiens

<400> 2419

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<210> 2420

<211> 738

<212> DNA

<213> Homo sapiens

<400> 2420

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<210> 2421

<211> 805

<212> DNA

<213> Homo sapiens

<400> 2421

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<210> 2422

<211> 856

<212> DNA

<213> Homo sapiens

<400> 2422

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 tttagaaccc actgataaca gacttattcc tggagacgca tttgaggagg aattggaaga 780
 attttctaata ggaaaaggaa aaaagggtca catggaacca gaatnttgca angggancct 840
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<210> 2423

<211> 608

<212> DNA

<213> Homo sapiens

<400> 2423

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 gagaacagaa ctggcccctg tacagggtgc attaactctgg ttgtatatgg gttataatat 180
 gtaatacaaaa aagctcatta agtatgggac tacatggaga gggaagacag tttcatttat 240
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 tttttctgtg aattttcctt ggtacatgag agaaataagt actctcatca acttatgata 480
 aattggacta ttaggaataa aacaatctca gagcagctcc taaacaagag aatnaaaatg 540
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 atgattcc 608

<210> 2424

<211> 822

<212> DNA

<213> Homo sapiens

<400> 2424

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taagaaactg aaagaattga accaacgcat tgggaagaca gagtgcagaa ataagcatga 60
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attattatct caaaggaatt gtttgaaacc aaacatgtta tccagtaatg gaggctctaa 180
ggttgcaaat tcagaggcta tgattttgga taagaatctt gagtcagtta atagtccaat 240
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gatttctgtg gaaagtccta atttgacaac tccaactaca tcaaattcaa cagataccag 420
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accaccagca ccactacctg gaattagtag accaaaaccc cgagacacac tttctttccc 720
agaaacctgg agcttcaaaa gtggaaaccg ggttttcaga accaaatggg cattggccct 780
gacnttgna attttaaccc caaaatcnaa tccccaaagt gg 822

```

<210> 2425

<211> 859

<212> DNA

<213> Homo sapiens

<400> 2425

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tgcccccttg gccgcagtgc cattgagctc accaaaatgc tctgtgaaat cctgcaggtt 180
ggggaactac caaatgaagg acgcaatgac taccaccga tgttctttac ccatgaccga 240

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gcctttgaag agctctttgg aatctgcatc cagctgttga acaagacctg gaaggagatg 300
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 gctttgccct ccaaacccaa ctctttggat cagttcaaga gcaaattgcg tagcctgagt 420
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 cagcgcctga accggctctg tgagggcagc agcttccgaa agattgggaa ccgccgaagg 600
 caagaacggt tctggtactg ccggttggca ctgaaccaca aggtccttca ctatggtgac 660
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<210> 2426

<211> 812

<212> DNA

<213> Homo sapiens

<400> 2426

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 tgaagaagac caaccagggt cctgtgggtg aaacactcct gtgccagctg agtcatatg 180
 ctaagacaga gctggggtct cagactccag aaagtagtcg cagtgaagcc agccgaatac 240
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 gaggtgaccc tgacagtga gctgatagca tagacagtga tcaagaagat cccctaaaac 360
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 tgcagtcgtt gtatatgat cagtttaaac gacttcagca tctgctcaag gagaanaagc 480
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 gccagaggg acttttggcc aaagaacgag agaacttaaa gcgattaaaa tgtctgcgac 600
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tgctggccac agatggtgct tgcccaacag gcccatacca ctggttccag tcagaggtgc 720
 ttggcctttg tggatgatgt tcgttgntcc atcagtctct tncaatgacc agacactggc 780
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<210> 2427

<211> 884

<212> DNA

<213> Homo sapiens

<400> 2427

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 taccaggatc actttcttcc ccagggtgta ctacagacct ccacatgttg gacagtagga 180
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 aanttncacg gaagatggtg gcaatgactg tgaaatggtg gcacaggacc aangggcatg 840
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<210> 2428

<211> 706

<212> DNA

<213> Homo sapiens

<400> 2428

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gcaacctctt ctctcaaaa tgtactgggt ctgcctgtct ggaggggccat ggagaagagg 180
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gaagatgatg taccacatct tctggggcta ggttggaaact gggcatcttg gangcagagc 660
ccaccagag ctgcactcag acctgctgna tcttncagtg ccagca 706

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<210> 2429

<211> 826

<212> DNA

<213> Homo sapiens

<400> 2429

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ttgctgaaca tttctacagt aaccctgcaa gatataaagg aagagaaaat atgttgtatt 180
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ttgttcattc tggaatatat actgatgaat ggatatatat tgaatctcca atcaccatga 300
ttgggtgcagc acctgggaaa gtggcagaca aagttataat tgaaaacact agagattcaa 360
ccttcgtttt tatggaaggc tctgaagatg cttatgttgg atatatgaca ataaggttta 420

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accctgatga caaatctgca caacaccaca atgcacacca ctgcttagag attacagtaa 480
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 ccaataatgc gtttagctggg atttgggtta aaaatcatgg aaacccaatt attagacgga 720
 atcatattca tcatggacgt gatgntgggt nggtcacatt tgatcatggc atgggggtact 780
 tttgaaagtt gcaattttcc cccgaaattn ggatagcagg cttttg 826

<210> 2430

<211> 704

<212> DNA

<213> Homo sapiens

<400> 2430

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 gtggtgaaag acggtagcca ggatgccgac cacagccagg ggagagctga gcccggccat 180
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 tgcctctcca agtccaagag agacagtggc gagggtcctg ggaagaaacc ccccagtgtc 600
 tttggcagca cggcagagag gatgaggcan gagggtgccg cgagccagga cgcggcctgg 660
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<210> 2431

<211> 882

<212> DNA

<213> Homo sapiens

<400> 2431

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attatgctgg tctccatggc ggggcctcgg agccaagacg aggttgagta gactcgtttt 60
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ggcaggactg ggggagtcag aggtctggca gcgctgtctg cgcagaccta ccggacgcta 180
cctcccaacc cccctgtctt cctcctgcct cctcctcctc ccgtcacctc ctgacccgcc 240
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agaatcaggc agaactggat tgcaaaaant taatgggcan acccggtatg tgtgcagggt 840
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<210> 2432

<211> 744

<212> DNA

<213> Homo sapiens

<400> 2432

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taatagaatt taaaacattt cacaaaagtc aacacataaa taatatcaac caaaataaag 60
tggtagacag aagagaaaaat atactaattt attgttcaaa gaggaaaata agtctcaaag 120
gttaaggcta ttatataaat ttatttttta aaagacataa acctacattt tcagaagaag 180

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aagttccatg tttccttaga ttatgtattt agcatccatt aatcacaggg ccaaactaac 240
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 tacagtcctt ccaaccacaa accccaacat atagtatttc acttcctgcc caatagtggg 360
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 catgaaagtt tctttttttt tctttnttct tttttttttt ttttgagaca gagttttgct 660
 ctttttgctc aggctggagt acagtgggag cgatcttggg tcaccgnaac cttcgncttc 720
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<210> 2433

<211> 852

<212> DNA

<213> Homo sapiens

<400> 2433

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 atgaagttat ttcagaccat ttgcaggcag ctgaggagt caaagttttc tgtggaatca 180
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 gatggcttta aagaatacac ttcaaacgtc tttttacaag ggaaacggtt ccacgaagcc 660
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tctggttaca ttgaagtgtc cagcatattc tgaaagatgt cagtggagtg ccactcttga 780
aagtgtgtgc aacatgaaac cttaactata tagnctgctt ggactgtgtg gctganatca 840
ggcaagctnt gg 852

<210> 2434

<211> 785

<212> DNA

<213> Homo sapiens

<400> 2434

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aggttatcaa caagcattcc accgagggtga ctgtagggtcc agagggtgac atgccatgcc 180
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<210> 2435

<211> 779

<212> DNA

<213> Homo sapiens

<400> 2435

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cattccgctg ggggcaccct catncacatc tgaaggagca cctgctgcac ggnaacatga  720
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<210> 2436

<211> 748

<212> DNA

<213> Homo sapiens

<400> 2436

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tctcctgcct cagcctcctg agtagctggg attacagagg aaccagacta gcatttctca  180
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agaacagatt cctggaatag acatacagct gaataggaag tatcacacca cacgtaagct  360
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aatagaagcc atgggattca cgggaccttt gaaatacagt aaatggggtg tcagatgcct 480
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<210> 2437

<211> 737

<212> DNA

<213> Homo sapiens

<400> 2437

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 cccacattc cggattgtcc tgtggggctt ncggtggctg atcttcagga tcatgcttgg 660
 agcangcctg atcaagatcc ggggggaccg gtgctggcna aaccttacct ggattggact 720
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<210> 2438

<211> 808

<212> DNA

<213> Homo sapiens

<400> 2438

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gtccgttcca cagggatcct tgggtgtttgt aaaataactt ctaagtactg ggaaatgatg 180
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<210> 2439

<211> 705

<212> DNA

<213> Homo sapiens

<400> 2439

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tgtagtccta gcttctcagg aggtgaggc aggaggctct cttgagcccg ggaggacaag 180
gctgcagtga gccatgacca tgccactgca ctcagcctgg gcaacagagt gagaccctgt 240

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ctcaagaaag aaaaacgaga aaggagagat ccctccactg taaggagatc gggttcatta 300
cattttgggg tgttgagaa aaatactgag tcagcacctg tgtgggattg gtgggagcag 360
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cttgatggg gaggatttcc ctccagcctt gtatggggag gatttccctt gtatggggag 480
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cactgagga tttacggcag cagcctctgc acggcttccc acgaccttcc cagctgcttg 600
ctggacgctg ctggagaaac agcacatncc aagatcatca tggccccagc atnctcttga 660
acttantaac agttggcctg acagatgaac cggatatcat ccctg 705

<210> 2440

<211> 728

<212> DNA

<213> Homo sapiens

<400> 2440

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aggctccatg agcagatgaa gtagacagct ttactcagta tctcagacca agaacttcat 180
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tcctatcgta aagtgacttg gcactgggaa gcctncatgg aagctcaagg nctatccttt 660
gctcaagtaa nggtattgga gggaaatttt tctctttgcg tagaaaataa aaatggcagt 720
ggaccctt 728

<210> 2441

<211> 772

<212> DNA

<213> Homo sapiens

<400> 2441

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gctagcgaat aaccttaaag aggagggtca taatcttggg ctgctccatg gggatatgga 60
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ggccacagat gttgcagccc gtggtctgga cattccttca attaagactg tcattaacta 180
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gcagaatgcc tggtttcgga aatctcgatt caaaggaggg aaaggaaaaa agctgaacat 420
tggtggagga ggcctaggct acagggagcg gcctggcctg ggctctgaga acatggatcg 480
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agccagttaa agtaatcaga agctggaagt tctgctgctg gggcaaagtg ggtggactag 660
tgcagggagc ttgaattctg gtccaactac tcancacaac agggccataa cagtcctgac 720
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<210> 2442

<211> 730

<212> DNA

<213> Homo sapiens

<400> 2442

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ggcagagacg agaagagagg aggggaggcc tcctccgccg ccgccatctt ggaccgggcc 60
cggctcagctt ccgcggagcc atcggcagac gccgcggcct cccttgagcc ccgacccccg 120
tcgtcagaac aacccccggc ccaactcccc aaccccaatt ccgttcgcg ccgctatcgc 180

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gatagcggcc gggcccgggg cgcgagaaaa aggcggcggg cgctcgccct ccccgccctgt 240
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 ctccacaatg cagccaacgc gaaccagaaa gaaaagtatg aggctgacct aaagaaggag 480
 attaagaagc tacaacggct gagggaccaa atcaagacat gggtagcgtc caacgagatc 540
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 aaagttgtgg aacgagagac caaaacaaaa gcttacagca aaagagggcc tgggcctgcc 660
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<210> 2443

<211> 727

<212> DNA

<213> Homo sapiens

<400> 2443

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 catctagggg actgccatgg tgtacgatgg gaagtccagt ctggagagtc caaccagatg 180
 gtccacatga atgtcctcat cacctgtgtc tttgtgtctt ttgttttggg ggcattcatt 240
 gcagggtgtgg cagtatactg ctatcgagac atgtttgttc ggaaaaacag aaagatccat 300
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 ggtctctttg acagccctgt caaggaatac caacagaata ttgattctcc taaactgtat 420
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 atggaccatc gagggcaacc tccagagttg gctgctcttc ccactcctga gtctacacc 540
 gtgcttcacc agaagaccct gcaggccatg aagagccact cagaaaaggc ccatggccat 600
 ggagcttcaa ggaaagaaac ccctcaattt ttccgtcta gtccgncacc tnatcccca 660
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cgtcttt

727

<210> 2444

<211> 828

<212> DNA

<213> Homo sapiens

<400> 2444

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cagtacacaa atgcatgagt atgtttatac agtgtagac tgatgtgaat ttgcatttgt 60
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aaatgcctgt atacctatgt gtgcagcagt aaaaaattag tgagaaaaag caactttttg 180
tcactcttag gaaatatttt gtcttattag tgttcttggc acatgtatat tactaaagta 240
gataattcca atgagaaata ctaccagatt attgttataa aattaattta caatgtccct 300
gatattgagc taactcttaa aaaaacacaa caaaactcgt atctgagtgt aactttgcca 360
atatttttaa agccaaaata ttctctggac aacaaatttg tattgctcag ggacagtta 420
ccttgccctgg taaaccttcc caaacagaaa tatagctata ctatcttttg tttgttttt 480
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gttttttagca gagacagggt ttcaccacgt tggccagggt ggtcttggac tcctgacctc 720
aggtcatcct nctgcctcgg cctnccaaag tgctgagact acaggtgtga gccccggctc 780
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<210> 2445

<211> 373

<212> DNA

<213> Homo sapiens

<400> 2445

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 aatggccatt ttttgtgtgt ccctctctct catcttatgc ttcccttcct ttttttattt 180
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 tagctgggac tacaggcgcc cgccaccacg cccggctaata tttttttttt ttttttggan 360
 ttttangaaa ngc 373

<210> 2446

<211> 869

<212> DNA

<213> Homo sapiens

<400> 2446

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 tggttatcta taaaccaaga ggaaacttca gaagaagctg aaattacca cggaatgct 720
 gtancacaag cttcagtaac aaaaagggtg ctacttaacc actggaagca aagatcaaac 780
 cattcgaatc ttggagctgg tctaaaaggc ccagggggtg atgaattttg gaaattggcc 840
 cttttttgaa anaanaanaa ggaggggggt 869

<210> 2447

<211> 774

<212> DNA

<213> Homo sapiens

<400> 2447

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agaggattta ttggttacga aggaagggtg atttcagtgt gttctttgga tggcaggcct 180
taagagaaga gtcccaactgc acagcctcag atacttcac tccatggtgg gtctcttctc 240
caaaccagga ctgcttcctt ggtatgccag aaatccacca ggatgggtcac agctctttct 300
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anatggcaat ccaaagactg tgggggttcta cctgggaact tggagagatg ggaaccttgc 720
tgnngcagt ctaatcatct gaaaaacatc cttgagaaac acagtcaant gggc 774

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<210> 2448

<211> 696

<212> DNA

<213> Homo sapiens

<400> 2448

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tggttgggaa tgaaccttta acagttttga tggattccct gcttccagtc ctgggagtc 120

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tttttcttct ctactgtttt actaagcaga gtgtgtctca cataaggtca ctttgccaag 180
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<210> 2449

<211> 675

<212> DNA

<213> Homo sapiens

<400> 2449

catcaagacc atcagggcga tatctttggc ggcctggtcc tcctgaaggt gaaggcaaag 60
 gtgcgacagt gcctgcagga gcggcggaca gtgcccattt tgtttgcctc taccgttcgg 120
 cgccaccccg acaagacggc cctgatcttc gagggcacag ataccactg gaccttccgc 180
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 cccaagcacc ttcccagttg ccctgacaag ggcttcacag ataaactgtt ctacatctac 600
 acattengca ccacagggct tgccaaaggc cgnatcgtg gtgcacagca ngattaccg 660
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<210> 2450

<211> 899

<212> DNA

<213> Homo sapiens

<400> 2450

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tctcttttca agttcgaatc gtcctcccat gccatcagta tgagcgccta tctgcgagaa 180
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gcaaaagatg atgatatcag cagactcttg aaatctctac caaactggat gaatatggct 780
caacccaaca gcttgaggnc caaaagagag gaggaagaag attcataagg gcagcttttg 840
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<210> 2451

<211> 889

<212> DNA

<213> Homo sapiens

<400> 2451

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 ggttccttcc tgggacagga gcatgggtgg taccctggac ctgtacagca tagatgaaca 660
 ctttcagccc gaagcagatt gtcaagtctc ttatcccttc gtggaacaaa ctggttttct 720
 ttgaagtatc tncgtngtcc tttcaccagg tgtctgaagt gctgctgaag aaaagtcacg 780
 tttgctataa gtggctggtt catggnccat tattgcttcg gcttccact cttttgaacc 840
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<210> 2452

<211> 740

<212> DNA

<213> Homo sapiens

<400> 2452

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 ggtcaaagag gactacacgc 740

<210> 2453

<211> 819

<212> DNA

<213> Homo sapiens

<400> 2453

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 aacaaaatcc acaaaggtg tgaactaata tgctggctgc taccttgcac aaattaatga 180
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 gtgatatacct tatttgctag cagaaaaggg actaacgtcc cattcctctt ttctgtgcg 660
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<210> 2454

<211> 795

<212> DNA

<213> Homo sapiens

<400> 2454

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gagaatctca gaaattggct gctgctgtct tctcccttgc cataaagcta caaccatcca 240
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gtgcagcatt tcagaatggt ttaacccatg gtttgggtta naattaagag taaagaacat 780
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<210> 2455

<211> 794

<212> DNA

<213> Homo sapiens

<400> 2455

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aaatgcagta taacctgcga ctgagggtccc agatgggtcat gaaaatgcgg gaatatctct 180
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 agcccatgg aactgtgaaa gccatatgta tccctgaagg accnaatact taaaaaggaa 720
 agacattgna tccattaaaa cttttgcagc tgccatttta atcaggaaat cttacctgga 780
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<210> 2456

<211> 739

<212> DNA

<213> Homo sapiens

<400> 2456

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<210> 2457

<211> 748

<212> DNA

<213> Homo sapiens

<400> 2457

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<210> 2458

<211> 875

<212> DNA

<213> Homo sapiens

<400> 2458

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<210> 2459

<211> 667

<212> DNA

<213> Homo sapiens

<400> 2459

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<210> 2460

<211> 949

<212> DNA

<213> Homo sapiens

<400> 2460

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<210> 2461

<211> 614

<212> DNA

<213> Homo sapiens

<400> 2461

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<210> 2462

<211> 818

<212> DNA

<213> Homo sapiens

<400> 2462

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<210> 2463

<211> 821

<212> DNA

<213> Homo sapiens

<400> 2463

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821

<210> 2464

<211> 795

<212> DNA

<213> Homo sapiens

<400> 2464

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<210> 2465

<211> 737

<212> DNA

<213> Homo sapiens

<400> 2465

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<210> 2466

<211> 692

<212> DNA

<213> Homo sapiens

<400> 2466

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<210> 2467

<211> 716

<212> DNA

<213> Homo sapiens

<400> 2467

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<210> 2468

<211> 742

<212> DNA

<213> Homo sapiens

<400> 2468

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<210> 2469

<211> 570

<212> DNA

<213> Homo sapiens

<400> 2469

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570

<210> 2470

<211> 738

<212> DNA

<213> Homo sapiens

<400> 2470

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<210> 2471

<211> 842

<212> DNA

<213> Homo sapiens

<400> 2471

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<210> 2472

<211> 640

<212> DNA

<213> Homo sapiens

<400> 2472

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<210> 2473

<211> 881

<212> DNA

<213> Homo sapiens

<400> 2473

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<210> 2474

<211> 669

<212> DNA

<213> Homo sapiens

<400> 2474

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atttccatat gaaagctgtg ccagggacag aagtgccagg gcataagaat tgggttgtga  180
gcaaatttgg aagagtctta cctgttcttc accttaaaaa tcaacataaa cgtaaaatca  240
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agaaacggcg aggagagttc tctgactttc atggccctcc caagaagata ataaaagtgc  420
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gaaaaaatt                                     669

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<210> 2475

<211> 692

<212> DNA

<213> Homo sapiens

<400> 2475

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gcctgaaaat gctacattat atcagcaatt gaaaggggag caaatTTTtac tttctgacaa  300
tgcagcttct cttgcagtgc aggccTTTT gcaaagtgtt aacttgccta tcaaagtagt  360
ttgtagggca aatgcagaat atatgtctcc atctggtaaa gtacctttta ttcagtggg  420

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caacaatatg ctgttgactg cagagctgtā tcttcagtgg tgtgatgaac tacagtangg 600
ganatcactc atgctaggta tggatctcct tacccttggc ctctgaatca tattttggcc 660
tatcaaaaac nctgggaant caaacgtaan at 692

<210> 2476

<211> 795

<212> DNA

<213> Homo sapiens

<400> 2476

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caaggnetcc ccanc 795

<210> 2477

<211> 665

<212> DNA

<213> Homo sapiens

<400> 2477

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ccagcccagc tttgaatccc tcatccgagc tcaggttgtg tactactcgg aaatgcacaa 600
gatctttgga gacctgtcca tcagcttgac canccaggcc actccgatna ncancgggan 660
cgggga 665

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<210> 2478

<211> 423

<212> DNA

<213> Homo sapiens

<400> 2478

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acaaaaacac tagcatcccc acccgcgagc tctgtaactt tttaatgtct gatgaagagt 60
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ctttccctga gcactgtagt ttgtgtnaag agatcttgcc attcacagat cgcaaacagg 180
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gttggatata tagaaggtgt ttgctccctg aangcattgn ccggnatcca gctccagaag 300
atccgactgg attaagaagt tactgcaaaa cccctgccct ttctgtgatt ctctgtctt 360

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<210> 2479

<211> 804

<212> DNA

<213> Homo sapiens

<400> 2479

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<210> 2480

<211> 758

<212> DNA

<213> Homo sapiens

<400> 2480

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cgcctggccc gggacaagaa tgcctcctta cagctgctgc aaaaggagaa ggagaagctg 420
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cnggcacctt cctcgcaacc tggcanccac actgcaggac tcnaaaacaa cgccaactan 720
ctctgcacag aaaggacaac aagtgattga aaaacanc 758

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<210> 2481

<211> 877

<212> DNA

<213> Homo sapiens

<400> 2481

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gcaggagatg gtccgcgtgc tgctgctgtg caatgctcgg tgcaacatca tgggccccaa 180
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caccagctcc gcggggaaca cggccctgca cgtggcggtg atgcgcaacc gcttcgactg 420
tgccatagtg ctgctgaccc acggggccaa cgcggatgcc cgcggagagc acggcaacac 480

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cccgtgcac ctggccatgt cgaaagacaa cgtggagatg atcaaggccc tcacgtgtt 540
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 aatcggcaga cttgtcacca ggaaggcgat cttgactctg ccgagaaccg tgggggccga 660
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 ctcatgcaca tctcacnggg ccccgaaaac cacgttcate cctgggggtnc atnaaaggga 840
 caaaaaaccg aancccaaaa caccttgctt ttncctg 877

<210> 2482

<211> 724

<212> DNA

<213> Homo sapiens

<400> 2482

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 ctgtctaggt tttatgtgaa gatatttcct ttccatgat aggccccaaa gcactccaca 180
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 tgcccacatc tcaaagaagt ttgtaagaat gcttctgtct agtttttatg tgaacatatt 660
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<210> 2483

<211> 894

<212> DNA

<213> Homo sapiens

<400> 2483

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attgcacact gcactttctg agttatgctt ctctataaat tatgtacca acatgggtggt 60
atgggaacat acctttaccc cagcagaata tttgacttct catctggaaa tacgctttac 120
caagtcaatt gttgggatga ctatgtataa tcaagccaca caggaaattg caaaccttc 180
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gtcattatca gaactactag gcccatatgg tatgaagttt ctaagtgaaa gccttatgtg 540
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tctgtttatt tactgctana tatgaatggt ncagaatccc attcctacaa tnggatcttt 840
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<210> 2484

<211> 873

<212> DNA

<213> Homo sapiens

<400> 2484

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ataaaaccgg gtccaagaa gtgtttgatc ctctcatta tgaactgttt tctaaggg 120

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acaaagagat ttctgcagac ctggcagact tgtcggaaga attggacaac taccagaaga 180
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 agctcanggc tgnctcttcn tttttaccaa ccaanaaaaa tgctcttgaa tgaataacan 840
 ctctgttcaa ttttttgat gcccacaataa aac 873

<210> 2485

<211> 788

<212> DNA

<213> Homo sapiens

<400> 2485

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 ccctgttc 788

<210> 2486

<211> 795

<212> DNA

<213> Homo sapiens

<400> 2486

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<210> 2487

<211> 656

<212> DNA

<213> Homo sapiens

<400> 2487

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<210> 2488

<211> 892

<212> DNA

<213> Homo sapiens

<400> 2488

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gccccatggtt cacaggaggc agaagctcca ggagcagttg ctggtgctgc tgaagtcctt 180
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<210> 2489

<211> 684

<212> DNA

<213> Homo sapiens

<400> 2489

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 catcctggag ggtcgagact gcttgggctg tgctaagaca ggcantggga anacagcagc 180
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 ccggctgctg gaacagggct gcactgactt caccgtggac ctggaagcca tcctggcggc 540
 tgtgccggcc cncangcaga cactgtgtt cacgccncgc tgaccgacac actccgggag 600
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<210> 2490

<211> 490

<212> DNA

<213> Homo sapiens

<400> 2490

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tcagcgatga acacggcatc caccggcccg gaggtacgt gggagactcg gcgctgcagc  180
tggagagaat caacgtctac tacaatgagt catcgtctca cgaaatatgt gccacggcc  240
gccctgggtg acttagaacc acgcaccatg gacagcgtgc ggtctgggcc ttttgggcag  300
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gggcctacac ggaaggcgcg gaactggtgg accnatgctg gacgttgtgc ggaaagatgc  420
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<210> 2491

<211> 585

<212> DNA

<213> Homo sapiens

<400> 2491

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acctcgccct ctcgaaagag gatccggcca gcagaattta tgcaaaggaa gcctcgaggc  180
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atcagcagcc attttctgag gatccgacag gggctggtga cctcctggat gaggaggagg  300
atgaggacac cggtatggant ggggcctacc tgccgtccgc cntcgagcag actcaccn  360
anagggtccc tgccggcacg tcgccctgca gcacatacct ttccttttcc tccaccccg  420
cggaactggn agggcctgag tctctgccct cgtgggcgtt gactgacact gattctcg  480

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tgtctccggn ctctccggca tggaatccta ccgcanactt tgcggttcat ggaagagtct 540
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<210> 2492

<211> 646

<212> DNA

<213> Homo sapiens

<400> 2492

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gcaggctctc ccagcccagc ctgaagtcct tgtgtatcgt ggaaatgggt gggactgaga 540
agcaggatga gctgggggtga gaagggtcgt attggcttcc tatacctgaa tattgggcta 600
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<210> 2493

<211> 679

<212> DNA

<213> Homo sapiens

<400> 2493

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agctgtcggc cccggcccga ctctatcaca agaaggtagg gacaaaagag gggacgcgcg 180
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 aggctcactg caactgataa acaacagtta ccgctcatcg ggcggcgact tccagggggc 360
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 ccggcttcag ccactccgct gcccttggcc agatgacctt gggctagtca ctgcgcctct 540
 ctgaacctgt ttcccaaggt gtaaatgggg ggctctcagc tgtcccttac aaangatact 600
 gtgcgttga gtcctggcat cngttcccc ccccatgtt ttttttncn aagaaaattg 660
 ttttcttgtt actgnttta 679

<210> 2494

<211> 521

<212> DNA

<213> Homo sapiens

<400> 2494

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 tcagcctggc agctccgagg cagtctcacc tggagacatg gatgcagggt ctgccagctg 180
 ggggtgctgtg tcttcattga atgatgtgtc aaatcacaca ctttctttag gaccagtacc 240
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 ggatcaagcc ctangtgatg gcacgcctcc tccacagaaa gttcttttcc catctgagaa 360
 gatntgtctt angtggcaac aaactcatng agttggagct gggctccaga atttgggcaa 420
 tacctgtttt gccaatgcac acngcantgt ttaacctaca caccaccctc ttgccaatta 480
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<210> 2495

<211> 860

<212> DNA

<213> Homo sapiens

<400> 2495

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tcaccccccg aaatgctaata cccacttcc gaccctctca ggccttttcc gcttctcttt  180
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gctcaaggca ccaagtgcac cctggaattc caggtgatta ctggttgtca ctatgatgta  600
gattgtcgat tagaagatcc tgatggtaaa gtgttatacc aaagagatga agaaacagta  660
tgatagtttt accttcnca cctccaaaaa tggggacata caaatTTTgc ttcancaatg  720
aatTTTctac tttcacacat aaaaatgtat atTTTtgatt ttcaaattgg aaaaaaaccc  780
aacctTTTgt ttcctaattg aaaaaacgaa ttcatTgctc tttacccaaa antggaaatc  840
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<210> 2496

<211> 868

<212> DNA

<213> Homo sapiens

<400> 2496

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atcacggggn agtctaggga aagggggaaa gtcttccagc ctgtgaactt taaccagatt   60
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ctttattccg tccctgagct cttctagcaa gttgttttgg agttgactac gcagtgcaga  180

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cggagattac ccagtcaact atttttgaac gctgaaaggg aaaatcacct ttaaattgaa 240
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 gttcgcggag tacagaaacg gagtatgatg actggacttc tctgttctct ttcaggttta 360
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 aaggagcagc atatagtcca gagggtcagc ccatggggag ctttgtgttg gatggtcagc 480
 aacacatggg gatccggcct gcangtttgc anancatgcc aggggactac gtttctcang 540
 gtggtcctat gggaatgant atggcacagc caagttacac tcctccccag atgaccaca 600
 ccctactcaa ttaagacatg gacccccaat gcattcatat ttgccaagcc atccccacca 660
 cccancccat gatgatgcac gggangaccc ctacccccct ggaaatgact atgtcagcac 720
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 cattccatgc cccattnatt tttaagggga actccccggg ggaaaaaggn anaccccccc 840
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<210> 2497

<211> 778

<212> DNA

<213> Homo sapiens

<400> 2497

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 tgacagatta ccagttggtc tcccccgcca agaatccctc cagtctcttc tcaaaggaag 180
 cacccaagag aaaggcacia gctgtttcag aagaagagga ggaggaggag ggaaagtcta 240
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 tttgtgatga tccggaggct ggggagatga catcagaaaa cctgggtccaa actgctccaa 420
 aaaagaanaa aaataaaggg aaaaaagggt tggagccttc tcagancact gctgccaagg 480
 tgcccaaaaa agcgaagaca tggattcctg aagttcatga tcagaaagca gatgtgtcng 540
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ctgcacccac accaatccna gccctgacct tggcacctgc catccgtgac aaactggaca 660
 tccttggggc tgctgaaaca ggaantggga aaactcttgc cttttgccat cccaatgaat 720
 tcatgcggtg tttgcnattg gccanaaaaa agaaatgctg nccccctcct cccaantt 778

<210> 2498

<211> 714

<212> DNA

<213> Homo sapiens

<400> 2498

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 gcggcgggag ccccccaaga ggaggaccgg gatccatgtg tctttcctgg tgactaggat 180
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 gtcactctcg tccttgccga cctaattttc actgacagca aactttatat tccttcggag 420
 tategttcta tttctctage tattgcctta tttttctca tggatgttct tcttcgagta 480
 tttgtagaan gctcatccac accgctcagc acgaangcct tgttctcagg ggcctgcttc 540
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 gaccttcttc ttcttcaggc cctggacgtt ancgacaaa ttcccgggga catccgttgg 660
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<210> 2499

<211> 596

<212> DNA

<213> Homo sapiens

<400> 2499

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 cctgggagcc ctccttttcc tcaacttcat caggttcctg gagagccact ggtttgtgtg 180
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 gaagccgcta ctgaggggccc tgctggacat catcaggtcc ctgaagaagt ctgggaagct 480
 gtggctggac gcctaccttc acaaatnaag ccacngcccc cgggacactg tggggaaagg 540
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<210> 2500

<211> 651

<212> DNA

<213> Homo sapiens

<400> 2500

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 atctgccgga actaccgtgg cgacgtggac atgtcagagg tggagcactt catgcccac 180
 ctgatggaga aggaggagga ggggatgctg tcgcccaccc tggcccacgg ggggggtccgt 240
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 acgcggtgtc cttggcggtc cgaaggcatc aagttatccg aagaaatgan gttgttcttn 600
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<210> 2501

<211> 808

<212> DNA

<213> Homo sapiens

<400> 2501

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aaaaaaaaa aaaaaataaa gactattact aaggctgcac ctgctgcccc tccagtccca   60
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gtcattaccc anatcagcca ggctttacct accactgagg taaccaatac tcaggcttct   180
tcagtcactg ctcagcctaa aaaagccaac aanatgaaaa aagttactgc caaggcagcc   240
caaggctccc aatccccaac tggccatgag ggtggcacta tacagctgaa ntcacccttg   300
caggtcctaa agctaccagt catctcacan aatattcacg ctccaattgc caatgantca   360
gccagttccc aanccttgat aacctctatc aagcctaaaa aagcttccaa ggctaaaaag   420
gctgcaaata aggccatagc tantgccacc gaggtctcgc tggctgcaac tgccacccat   480
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gacactgagc atatanaagc tctaaatgtc actgacgcag ctaccaagca aattgaagnc   660
tcagtaatgg ctatcaggcc caaaaaatcc aagggcacaa aggctgccaa caagggnccn   720
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<210> 2502

<211> 460

<212> DNA

<213> Homo sapiens

<400> 2502

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agggacggtt cggggtcacc taaccctggt ccccggggcg ctgggacgct agccccaagc 180
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 tgtncggaca gcancgctaa gtgccccccc acccccggcg cagggtgcac tcgctcctgg 360
 ccgcggggccc ancggcggcg gcggcggcgg cggcggaagg gattancccg ggacgcgcga 420
 agcgctgcc tcaagctacc gcccgganan ggacccgant 460

<210> 2503

<211> 439

<212> DNA

<213> Homo sapiens

<400> 2503

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 cgcacacgct gcgccggaag tgtgaactgt ctgcctccag gctttgtcat ggcggtgct 180
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 gtgagcggc tgtgttgggg caccggcggc gaaaccaca tgctggtggg ctgcgcggac 360
 aggacgggtga ancacttcag caccgaggat ggcatattcc agggtcngan aactgccccg 420
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<210> 2504

<211> 928

<212> DNA

<213> Homo sapiens

<400> 2504

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<210> 2505

<211> 659

<212> DNA

<213> Homo sapiens

<400> 2505

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<210> 2506

<211> 451

<212> DNA

<213> Homo sapiens

<400> 2506

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<210> 2507

<211> 827

<212> DNA

<213> Homo sapiens

<400> 2507

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<210> 2508

<211> 501

<212> DNA

<213> Homo sapiens

<400> 2508

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 cctcccgggc ggttccggga gcaacnanta aacctgcacc cgcgcgggat tacctccaag 480
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<210> 2509

<211> 662

<212> DNA

<213> Homo sapiens

<400> 2509

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<210> 2510

<211> 581

<212> DNA

<213> Homo sapiens

<400> 2510

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acatccggaa cgcctggaag cacagccgga tgttctttgg caaaaacaag gtgatgatgg 240
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ggttgagggg tgaggtgggt ctctgttca ccaaccgcac aaaggaggag gtgaatgagt 360
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 tgagcctgga tccaggggccc ctggagcagt tccccactc catggagcca cagctcaggc 480
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<210> 2511

<211> 648

<212> DNA

<213> Homo sapiens

<400> 2511

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 gcggtgacca gtggaggtga ctggttggan cctggaattg gaagcagatt ccaagctctg 480
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<210> 2512

<211> 711

<212> DNA

<213> Homo sapiens

<400> 2512

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tggttcaaag aaacaaaaa ccanantgtc ctcttagctg ctgcagaaan actgccanca 660
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<210> 2513

<211> 794

<212> DNA

<213> Homo sapiens

<400> 2513

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ccttggatat gtgtcccgtg cccgtccctg catcccttag catgcatatg gccattgcag 480
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 aggnccatccc tgaaaaacct tggaacgtgg gaaggtctgt gctcctttta aaataaaact 720
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 cgttctggcc ncnt 794

<210> 2514

<211> 680

<212> DNA

<213> Homo sapiens

<400> 2514

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 aagangccct cgggtgtgcc catggctggc caggatcctg cgctgagcac gagtcaccgc 180
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<210> 2515

<211> 700

<212> DNA

<213> Homo sapiens

<400> 2515

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aaaaaaaaagc ccgagtgcag ccgccgggcg caggatggga tccggctcct ccagctaccg   60
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ctgcaactcc agcgacatca tggacctgtt ctgcatcgcc accggcctgc ctcggaacac  180
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tccagagacc atcgangccc tgcggaagcc ganccttgac gtctggcttt gggancccaa  660
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<210> 2516

<211> 748

<212> DNA

<213> Homo sapiens

<400> 2516

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ttctgtgcta tggctctggc tgacttcngg gcgcgtgtgg tacgcgtgga ccggccccggc  180
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aatccaaggc ttatttatgc cagnctnagt ggatttgggc agtcaggaag cttctgccgg  420
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agtgggtgaga atccgtatgc cccgctgaat ctctggctg actttgctgg tgggtggcctt 540
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 gtcattgatg caaatatggg ggaaagaacn gcatatttaa gttcttttct gtggaaaact 660
 canaaatcna antctgtggg gaacacctcc aaggacanaa catgttggat ggttggaca 720
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<210> 2517

<211> 847

<212> DNA

<213> Homo sapiens

<400> 2517

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 aaggaagcat ctgccgcttg gctgatttaa gaattgtgct gaattcctgc cccatcttgt 780
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<210> 2518

<211> 840

<212> DNA

<213> Homo sapiens

<400> 2518

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ttaaccattht tcaggtgtgt ggttcagtgg ccttgggtac agacccagtg ttacacagcc  180
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ctgtgccct gcggggccca tgcactgcaa accccgctgn ctcaaactgt tgcctgcgtt  780
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<210> 2519

<211> 826

<212> DNA

<213> Homo sapiens

<400> 2519

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cacagggtct tgccccctct ccggggcctg tgccagctcc ctcccccccc cgttgtctct  180

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tccccacagc cattctggga gctggggaac ctggtctcaa ggcaggccct gcagttccac 240
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 caggaattct acacttgcaa cctcgggcac tgtnggggaa ttgcattgcc ttggggcctc 720
 ttgggttggg gaaccatgga acaggccctg ggtccctttt cctaaccctt tgttcnggga 780
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<210> 2520

<211> 697

<212> DNA

<213> Homo sapiens

<400> 2520

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 caaaaaccan aatgtccctc ttagctgctg cagananact gccancaatt gttatggcag 660

cctgggccac cttccgaact ctatgcttga agggtn

697

<210> 2521

<211> 853

<212> DNA

<213> Homo sapiens

<400> 2521

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<210> 2522

<211> 784

<212> DNA

<213> Homo sapiens

<400> 2522

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tatacataaaa aagaaaccaa atcaagctaa aaaaggcctt ggggccaaaa aaggaagttt 180
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gaaaaccaca gggctattca gacagacctt ctgctcgccg caaagcccag attatgaacc 720
canttgaaaa ttacagatga aggccnanaa anaaatttgg gcaatgttca agggccattt 780
cntc 784

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<210> 2523

<211> 690

<212> DNA

<213> Homo sapiens

<400> 2523

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cagaaggaac tagaaaagaa aagaaaactt gaaactaatc ctgatattaa gccatcaaat 480
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 aaaagncatt gtccaaantg ganaaaaaaaa 690

<210> 2524

<211> 684

<212> DNA

<213> Homo sapiens

<400> 2524

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 ttgctcacta nananattcc gctccttnca ggacaaacta caactcctaa naagaagcag 660
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<210> 2525

<211> 843

<212> DNA

<213> Homo sapiens

<400> 2525

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ccggcggaga tcatgaatca gacagataaa aatcaacaag aaatcccatc ataccttaat	180
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ggttggttaac tgaaaaaaat ggtatgtttt gaaataattt aataaaaant ctttctnagtt	780
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<210> 2526

<211> 293

<212> DNA

<213> Homo sapiens

<400> 2526

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cccaggaaca cacngagggt cacatcacat tcccttgctc aactgcccc cctctcccac	120
atgacacccc cttccctgtc cttccccaac tccccagctc caagagtgga agaaatcccc	180
aagatcatct gggcttccct ctccnaaccc agaactgagg ctnggatata tctnctnaca	240
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<210> 2527

<211> 567

<212> DNA

<213> Homo sapiens

<400> 2527

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aangaattga atgatctggc acgggaccct ccancacagt gttcaacaag tcctgttggg 480
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<210> 2528

<211> 679

<212> DNA

<213> Homo sapiens

<400> 2528

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aaggaggccc acaaccgggt gatttgtctg caggatgtca gcgagtctgt tttccagctc 360
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 gatcctgaac tctatacggg tgccaagcac tgtgccaaga cccaccttgg cccagctgc 600
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<210> 2529

<211> 654

<212> DNA

<213> Homo sapiens

<400> 2529

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 gtgctccctt taaggaggct cttcttaggg aagctgagct aaggaaacag aggcttgaag 240
 aactaaaaca gcagcagaaa cttgacaggc agaaggaact agaaaagaaa agaaaacttg 300
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 aacttaaaaa ggtgattgaa gcctccgatg ttgtcctana ngtgttggat gccagagatc 480
 ctcttggttg cagatgtcct caggtagaaa aagccattgt ccagagtgga cagaaaaagc 540
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<210> 2530

<211> 327

<212> DNA

<213> Homo sapiens

<400> 2530

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agcttctctc gccatgcgtc ctctgtgaag gttcgtgtgc taattagatg ggcgccaggg    60
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gttcgccttg gggcctcggg ggcggttgc actccccgac atgacggccg ctgccctntg   180
cagggccggc cggcgattgc ncntgtcctg ctctcttaaa gcccgggacc gcgggatggg   240
tgtcggcgtg accatccctt aactccctgt ctctcctcan tgacatcntc tttaaaccct   300
ncntggtaat ccctgactca ccgcctnt                                     327

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<210> 2531

<211> 355

<212> DNA

<213> Homo sapiens

<400> 2531

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agaggaggat gacgagggac gagggatgag gatgaagatg aaattgaacc agcagcgatg    60
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gaggatgacg atgacgatga ggaagatgac tctgaagaag aagctatgga gactacacca   180
gccaaaggaa agaaagctgc aaaagttgtt cctgtgaaag ccaagaacgt ggctgaggat   240
gaagatgaag aagaggatga tgaggacgag gatgacgacg acgacnaaga tgatgaagat   300
gatgatgatg aagatgatga ggaggaggaa naanaggagg aggannagcc tgtcc          355

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<210> 2532

<211> 758

<212> DNA

<213> Homo sapiens

<400> 2532

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 gcatactttg gatacttgct taaaacttga tgatactgtc tatctgaggg acatagcctt 360
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 cagatctgct tattgtttgg gttcaagcca cccagaagg atccttgcta tgaaaatgcg 660
 gcatttgaat gcaatgggtt ttcattgtga tcttgggtcaa taactgggaa aatggacnaa 720
 cttanaaaat gggaagatgc agtcccnttt ttgnaana 758

<210> 2533

<211> 780

<212> DNA

<213> Homo sapiens

<400> 2533

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 tatatgacag aagaaaaaga tgtcattccg taaagtaaac atcatcatct tggtcctggc 180
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 tctccgacat gcagtagatg ggagacaaga ggagattcct gtgggtcatcg ctgcatctga 360
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 cagtgattcc ctgaaaagca tcagatacaa aattgtcaat tttgacccta aacttttggg 540

aangaaaagt aaaaggaaga tcctgaccan ggggaatcca tgaaaccttt aacctttgca 600
 aggttctact tgccaattct ggttcccaa cgcaaaaaaa ggcctatcnt tggatganga 660
 atttattgtg caanggtgat attcttgccc ttacaatac naggacttga aaccagga 720
 nttgccactt gcatttttcc aaaaaaattg tnaatcccc ccnctactta aatttnttct 780

<210> 2534

<211> 591

<212> DNA

<213> Homo sapiens

<400> 2534

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 aatgcctgca taaattttcc acccgggatt atatcatgga accctccatc ttcaacactc 180
 tgaagaggta ttttcaggca ggagggtctc caganaatgt tatccagctc ttatctgaaa 240
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 tggaacagat gattgcacat accacgtggc gggacctttt ttataaactg gctgaagccc 480
 atccagactg tttgatgctg aacttcaccg ttaagcttat ttctgacgca gggtnccagg 540
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<210> 2535

<211> 731

<212> DNA

<213> Homo sapiens

<400> 2535

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gttacaccgt ggcggaatgg ggtgtattga ttctgagcaa taaacaacac atttttaaca 120
 ttcaggattg acttctaagg actcttggta catgaggaag aaaccggaa ggggaagagg 180
 aaagcaaagg cgtcaggaat ggttcttcct caggtatttt ttctaaatgt gagatcaagg 240
 aattaccacc aaaaaaggag agtaatacag gagaaatatt ccagacagta atgttgaaa 300
 gacatgaaag ccacgacata caagattttt gcttcagaga aaccagaaa aatgtacatg 360
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 aggaaagtct cattggtaga agagacatgc atggtagaaa ggatgatgca caaaagcagc 480
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 aagctgaang gaaaatatat aaatatgac acatggaaaa atccgtcaac agtagttcct 600
 taatttcccc accccaacgt atttcttcta ctgtcaaac ccacatttct catacatatg 660
 aatgttattt tgtggattcn ttattccnc caaaaganaa agccaatntt ggggacanaa 720
 cactaccaat t 731

<210> 2536

<211> 696

<212> DNA

<213> Homo sapiens

<400> 2536

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 aggggattgc cccggaagag ggaggcgtgg acgcaaccac acccgcttga ggctctctat 180
 gaatctctga nagtcttaga gaaggacacg tctgccacat ccagtcagt taatggatca 240
 cccaagcgg aacaaccttc attggaatct acaagcaaag aagccttctt tagcagagtg 300
 gaaacatttt cttctttgaa atgggcaggt aagcccttg agctgtctcc actcgtctgt 360
 gcaaaatatg gctgggtcac agtggaatgt gatatgctca agtgctctan ctgtcaagct 420
 tttctctgtg ccagtttaca accagctttt gactttgacn gatataagca acgatgtgct 480
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 tcccanacc gatttgggat gttgcccctg gatnaacctg ctattcttgt tagtgaattc 600

ctaaaatcgt ttcnaancct ttgtcacttg gaactccact tcctttccct naaggccgga 660
agaacttgaa aactattttc cttgaacnaa gnacaa 696

<210> 2537

<211> 715

<212> DNA

<213> Homo sapiens

<400> 2537

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gtttatggaa catgcgcatt tgttctcagt aagtttttcg ttttgaaagt gagcatgcgc 180
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catatcaagc atcttgcaaa gaaagattct tcagttagga ggagaatgga gttccaattg 360
cccgggctgt tcttggtgac atggaacca aagttatcaa tcaaacgctg tcaaaggctg 420
cccagtctgg ccaatggaaa tatggtcaac atgcatgctt ctgtcaaaaa caaggttctg 480
gaaacaactg ggcatatggt tactctgttc atggaccag gcatgaagaa tctataatga 540
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gtatggctgg gggcacagga tcaggattan gaactttcgt tacacagaat ttanaanatc 660
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<210> 2538

<211> 451

<212> DNA

<213> Homo sapiens

<400> 2538

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 aatggaaata atataacaat gctggttcct ggaggagaag gacctgaagt gtgaatgagt 300
 ttccttgact tacactagat ttgttttgg ctataatgac aagaaaatgg aatttttttt 360
 cccactttct aatgtttaaa tcccataaag ctaagtttcc cgttaaaagg ggaagtgttt 420
 tgaagagggtg taccantn ttgtaagtn a 451

<210> 2539

<211> 569

<212> DNA

<213> Homo sapiens

<400> 2539

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 cattgtgatt ggggcgggga tccagggtg cttactgca taccacctgg ccaaacacag 180
 gaagaggatc ctctgctgg agcagttctt tctaccacac tcccaggaa gctcccatgg 240
 acaaagccgg ataatccgaa aggcgtacct ggaagacttt tacacccgga tgatgcatga 300
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 gtcgagggca gagggtagaa caccagtgtt cttcatctg aggaactgaa gcaacgtttc 480
 ccaaattatc gggttgccca aggggagaag tggggctctt ggaaaaattc nggaggaggat 540
 taatctaattg catnatnagg gccctcaga 569

<210> 2540

<211> 542

<212> DNA

<213> Homo sapiens

<400> 2540

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gatgtggtag tagggacccc atctcgcaact taagccactt gcagcaagac agcctgaaac 480
ttcgtganc cctggagctt ttgtggtgga cgangtganc cttctttttt cctttggctt 540
tg 542
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<210> 2541

<211> 470

<212> DNA

<213> Homo sapiens

<400> 2541

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gatatcatat gctgtgtgtt cctgctcctg gccattgtgg gctacgtggc ttaggcac 180
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gtggaaaaat gccccgaccg ctacctcacg tacctgaatg ctgcagctc ccgggacttt 420
ganactataa gcagttctgg gttcctggct tcaagaaaat aaggnntggt 470
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<210> 2542

<211> 584

<212> DNA

<213> Homo sapiens

<400> 2542

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aaagtgtgat gagaggtcag gggaacatcc cagtaaaaga gaagagtcac aggaagctca 60
tctcctccct ggattctgga ttaggagctt ctgaatcttt tccagggata ggcaggttagc 120
tcactcttgg tgcaatttct tgaggatggg aacatgtaga gctgctggaa ggagtaattc 180
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ccctcctggc ctgtgcagaa tgtaaacngc agactcatac tcaatgggca ctacaggcct 540
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<210> 2543

<211> 472

<212> DNA

<213> Homo sapiens

<400> 2543

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tcctgcccgg cgccggcgcc gcgtgggcca aacctgcgc cgtggagggg cgcgcagagg 120
gcaccgggcg ccgggagcag gcggcgcaca ccagcattgt gttagtgccg ggaggccact 180
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cgttatctga agaaaggac gttcaagtac cggatcagcg tgggcgcccc tgtctacatg 360
gcggcagtca ttgagtacct ggcagcggaa nttctagaat tggccggcaa tgccganaag 420

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gacaacaaga aggcccggnt agccccgaga cacatcttgc tggcagttgc ca 472

<210> 2544

<211> 517

<212> DNA

<213> Homo sapiens

<400> 2544

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atgctatgtg ggctacctgc ccgttagtag tcacctaggg tatccaatca gctgtcctga 120
tatcagagtg cctgtgttca agtaactctt attttgctca gtggccccag attgcaagag 180
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tttgctgctt ttctttaatc accctctcct cctgtggcct gtttctatat acttggcatt 480
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<210> 2545

<211> 460

<212> DNA

<213> Homo sapiens

<400> 2545

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aaaatgttgt atgttcgtg tggaacagtg ggttcagaa tgtttcttgt atatgtttct 180
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 agtgcctcac cctgggccct cactaatggt tccagtgagc tccagcttgc tcccatccat 420
 gaccacntgg accantcgag tctcangtgg gccatggtaa 460

<210> 2546

<211> 167

<212> DNA

<213> Homo sapiens

<400> 2546

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 tgctcccaca gggcagcacc atgtngcccc tgtngctctg ctgggcactc tgggtgctgc 120
 ccctggctgg ccccggggcg gcngtgaccg aggagcagct cctgggg 167

<210> 2547

<211> 472

<212> DNA

<213> Homo sapiens

<400> 2547

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 gaaggaaatt ggtccagatg acatgaatat ggaagagtac aagaagtggc atgaagatta 180
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 gatgaagggg ccccgccggg gggtc aaaga atccgtgatt gctttatacc gaagaaaatg 360
 ctttctggag ctgaatgcc aagcagcttc tctttttgaa acaatgatga tcactccgta 420
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<210> 2548

<211> 476

<212> DNA

<213> Homo sapiens

<400> 2548

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cactattctc aggcgagcga gtgggcggct aaatacatca ggaaccgtat catccagttt 120
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ggacacattg ccttcaacga gccaggctcc agtctggtgt ccaggaccgc tgtgaagacg 420
ctggccatgg ataccanctg gccatgctan gntcttcgat gggagaactt caccaa 476
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<210> 2549

<211> 465

<212> DNA

<213> Homo sapiens

<400> 2549

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tgggacagag acccggcagc ggaggctgga cagctgtggc aagccagggg agctggggct 120
tcctaccccc ctcagcacag gaggactccc tgtagcctca gaagatggag ctctcagggc 180
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gcagcacaga gtcacagca gcaacctggc cctcatccag gtgcanngcc actgtctngg 420
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<210> 2550

<211> 557

<212> DNA

<213> Homo sapiens

<400> 2550

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agaagggcaa cctcgtgctt tctgcagagg agaccggagg gcagaaggca gagtccaggc 60
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taaaaggcag gagcttcgtg ttgtgggtct gctaaccgt acgtttccgt gggcaagtcg 180
tgtgtactcc tcgcatggc tcagctccaa acacgttct acactgataa caagaaatat 240
gccgtagatg atgttcctt ctcaatccct gctgcctctg aaattgccga ccttagtaac 300
atcatcaata aactactaaa ggacaaaaat gagttccaca aacatgtgga gtttgatttc 360
cttattaagg gccagtttct gcgaatgcc ttggacaaac acatggaagt ggggaacatc 420
tcatcagaag aagttgtgga aatagatacg tggagaagtg taccgcaccc cagccagagc 480
aagcaagttc cagatgacgg nncagttcaa ttaaagggca gagganggat ctgactggtc 540
ctatgtaagg ctctcgg                                     557

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<210> 2551

<211> 591

<212> DNA

<213> Homo sapiens

<400> 2551

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agaagggcaa cctcgtgctt tctgcagagg agaccggagg cagaaggcag agtccaggct 60
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aaaaggcagg agcttcgtgt tgtgggtctg ctaaccgta cgtttccgtg ggcaagtcgt 180
gtgtactcct cgccatggct cagctccaaa cacgttcta cactgataac aagaaatatg 240
ccgtagatga tgttccttc tcaatccctg ctgcctctga aattgccgac cttagtaaca 300

```

tcatcaataa actactaaag gacaaaaatg agttccacaa acatgtggag tttgatttcc 360
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 catcagaaga agttgtggaa atagatacgt gggaagtgtg cgcaccccca gccngagcaa 480
 tgcaggttcc atgatgactg gatcagtcca ttaaagggca aggatggatc ttgacgggtc 540
 ctatgaaaag cctncggatn gggcctggaa ggaagncaaa atgcatgtg g 591

<210> 2552

<211> 443

<212> DNA

<213> Homo sapiens

<400> 2552

gggagcttcg gacccggaag tggcgccctg ggctcgcggc ggtgtcgcgg ggatggcggg 60
 agccggagct ggagccggag ctcgcggcgg acggcggcgg gggtcgaggc tcgagctcgc 120
 gatccaccgc ccgcgcaccg cgcacatcct cgccaccctc ggcctgcggc tcagccctcg 180
 gccgcagga tggatggcgg gtcagggggc ctgggggtctg gggacaacgc cccgaccact 240
 gaggtctctt tcgtggcact gggcgcgggc gtgacggcgc tcagccatcc cctgtcttac 300
 gtgaagctgc tcatccaggt gggtcatgag ccgatgcccc ccacccttgg gaccaatgtg 360
 ctggggagga aggtcctcta tctgccgagc ttcttcacct acgccaagta catcgtgcaa 420
 ttggatggta agaangggnn ttc 443

<210> 2553

<211> 503

<212> DNA

<213> Homo sapiens

<400> 2553

aaaaaaatgc ttctgtgctc taagatatat atgtgtgtgt gtgtgctaca tatatatttt 60
 taagaaagga ccattctttt aggatatatt tttaaattct ttgaaacaca taaccaaatt 120

ggtttgattc actgactgac tttgaagctg catctgccag ttacacccca aatggcttta 180
atccccctctc gggctctggtt gccttttgca gtttgggttg tggactcagc tcctgtgaag 240
ggctctggtta ggagagagcc atttttaagg acagggagtt ttatagccct tttctacttt 300
cctccccctcc tcccagtcct tatcaatcct ttttcctttt tcctgacccc ctccttctgg 360
aggcagttgg gagctatcct tgtttatgcc tcactattgg cagaaaagac cccatttaaa 420
accagagaa cactggaggg gangcccaa gtnggtccgg ggccaattnc cccgggcca 480
aacagacaga cagaagcgag aga 503

<210> 2554

<211> 573

<212> DNA

<213> Homo sapiens

<400> 2554

ctgggcgcgc ggaacaaatc cactcctgga gcccgcggac cacgagcacg cgcctgacag 60
cccctgctgg cccgggcgcgc ggcgtcgcca ggccagctat ggcccccgac ccggtggccg 120
ccgagaccgc ggctcaggga cctaccccg cgtacttcac ctgggacgag gtggcccagc 180
gctcaggggtg cgaggagcgg tggctagtga tcgaccgtaa ggtgtacaac atcagcgagt 240
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tcctgattgg agaactgtct ccagagcagc ccagctttga gccaccaag aataaagagc 420
tgacagatga gttccgggag ctgcgggcaa aattggacgg atgggctcat gaggcaacca 480
gtcttcttcc tgtgtactgc tgcacatcct gctgctgatg gtgcacctgg ctcacctttg 540
gctttggngg ncttttgcct cctctcnggg ggg 573

<210> 2555

<211> 554

<212> DNA

<213> Homo sapiens

<400> 2555

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ctttagttc gtggtctgag accaggcctc aagtggaaac ggcgtcacca tgatcgcacg   60
gcggaaccca gaacccttac ggtttctgcc ggatgaggcc cggagcctgc ccccgcccaa  120
gctgaccgac ccgcggctcc tctacatcgg cttcttgggc tactgctccg gcctgattga  180
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tacggccttt ttttttctg gatattatct tgtaaaacgt gaagactacc tgtatgctgt  300
gagggaccgt gaaatgtttg gatatatgaa attacatcca gaggattttc ctgaagaaga  360
taagaaaaca tatggtgaaa tttttgaaaa attccatccc aataacgttg aaagtcttca  420
aaaatgcttg cccaagttt ccaactggaaa ccgggcgggtt ccggaaatta gagggaaaag  480
ngttcctaata ggcagntgaa agcctatgcc aaatccgtaa ggttgacacc cttgtaatta  540
aaatacgtac catg                                                    554

```

<210> 2556

<211> 456

<212> DNA

<213> Homo sapiens

<400> 2556

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agccggctcg ggaaagaatc cccaagctc catttcatga gtaagcgtga gagccgctca   60
gtttcctcca gctctgctga agccagcaca gaagtagccc aaactcttcc ctctgctgac  120
agcaaatttt aggcaaagtc atgagaaaga agaaattggg tccagaaagg gaagtgagga  180
gaatcagatc ccagaccttt ggggagaagg agcaaccgcc tctggcacag cccatcaggg  240
agaaagagca ggttgagaag agtcctaagc taacagcccc aaacaggtgg gcgttgctca  300
gctccctgag gcatgtggtt gtaaggcaga acccacagac cttgcaggaa gaaggctctc  360
ggggccatgg ccaggtcag catcaacaat gactacagcg agtgggactt gagcacggat  420
gccgggggagc gggctcggnt gttgcanaat cccgnt                                456

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<210> 2557

<211> 578

<212> DNA

<213> Homo sapiens

<400> 2557

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cggaggtgac ggagcggcgg ccccgcccg tgcgtggag gtcgaagctt ccaggtagcg 60
gcccgcagag cctgaccag gctctgggca tcctgagccc aagtccccca cactcagtgc 120
agtgatgagt gcggaagtga aggtgacagg gcagaaccag gagcaatttc tgctcctagc 180
caagtcggcc aagggggcag cgctggccac actcatccat caggtgctgg aggcccctgg 240
tgtctacgtg tttggagaac tgctggacat gcccaatggt agagagctgg ctgagagtga 300
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agctgaagcc cggaatcttc ctccactaac agaggctcag aagaataagc ttcgacacct 420
nctcagttgt caccctggct gctaaagtaa aagtgttaac ccatatgcag tgttgctgga 480
ggctcttgcc ctgggtaaat gttgcggcaa ctgggaaaga ccttgtgatt gaaggctgtg 540
taatgctgaa cgtgcttcgt ggctnccng gaacagcg 578

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<210> 2558

<211> 571

<212> DNA

<213> Homo sapiens

<400> 2558

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cgttccgcgc tgtcgccgcc gtcgtgcgtg ccgctcggcg gaggggacgg gcctgcgttc 60
tctcctcctt cctccccgcc tccagctgcc ggcaggacct ttctctcgct gccgctggga 120
ccccgtgtca tcgcccaggc cgagcacgat gccccctaaa aaggaggtg atggaattaa 180
accacccccca atcattggaa ggtttggaa ctcactgaaa attggtattg ttggattgcc 240
aaatgctggg aaatctactt tcttcaatgt gttaccaat agtcaggctt cagcagaaaa 300
cttcccgttc tgcactattg atcctaata gagcagagta cctgtgccag atgaaagggt 360
tgactttctt tgtcaatacc acaaaccagc aagcaaaatt cctgcctttc taaatgtggt 420

```


ggatattgct ggccttgtga aaggagctca caatgggcaa ggccttgggg aatgcctttt 480
 tatctcatat taagtgcctg tggatggcat ctttcatcta acacgtgctt tngaaagatg 540
 atgatatcac gcacgttgga agggangngt a 571

<210> 2559

<211> 481

<212> DNA

<213> Homo sapiens

<400> 2559

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 atggaaccat gaaccgagac tcttctctgt ttctgcca gacctcatct gcactaatgc 120
 cttctccctg naccttgaca cttccccctt tagctataaa agcacttacc agccgaacgt 180
 ggaacagtat cacaaaagat tccatctccc aacgatttca gaactctgag ctcagagaga 240
 ctccagattt taaaaaataa tttgagtgtg tggaaactat tagcttttta agttccttcc 300
 aaatatgtta gtacctacc tttacttttt cccaagacc atctcagggt ggagcattct 360
 gtctaagaga agaaagataa ggttgcctcc acccactct cccaagggn gacattaaac 420
 atctttgtgc tttgaaggag agtggaaatt tgggatagtc ctgtgatttc cngactaact 480
 t 481

<210> 2560

<211> 417

<212> DNA

<213> Homo sapiens

<400> 2560

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 atggaaccat gaaccgagac tcttctctgt ttctgcca gacctcatct gcactaatgc 120
 cttctccctg accttgacac ttccccctt agctataaaa gcacttacca gccgaacgtg 180

gaacagtatc acaaaagatt ccatctccca acgatttcag aactctgagc tcagagagac 240
 tccagatddd aaaaaataat ttgagtgcct ggaaactatt agctddtttaa gttccttcca 300
 aatatgttag tacctaccct ttactddtttc cccaagacca tctcaggggtg gagcattctg 360
 tctaagaggg aaagataagg aggctcccac ccanctctcc caagagcggg ggnaana 417

<210> 2561

<211> 525

<212> DNA

<213> Homo sapiens

<400> 2561

acttccccgg gagccggaag tcccgctctca cggttgccct ggcagcgcgc gaggctggtg 60
 agtcggcagc cctgtggcag ccggcgggct ggtttccatg gttgcacgat taggaaccac 120
 cagctgctgc atcccatggc caggggtggc gtccaggtgg cagagcagct aggaacgcaa 180
 ggcctgaacc tggggccaga caccctgctc tcccgccat ggtcaacgac cctccagtac 240
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 tctatggctc cttctactat tcctataatgc cgacagtcag ccacctcagc cctgtgcatt 420
 tctactacag gaccgactgt gattcctcca ccanctcact ctgctccttc ctgttgccaa 480
 tgtctcgctg ataagggtgn acgtaatcgg ggntgaagta tggaa 525

<210> 2562

<211> 547

<212> DNA

<213> Homo sapiens

<400> 2562

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 cgcgcgatgt gcagcggttg ctagtgcagt tccaggatga gggcgggcag ctgctgggtt 120

ccccgttcga cgtgcccgtg gacatcaccc cggacaggct gcagctcgtg tgcaacgcgc 180
 tactggccca ggaggatccc ctgccactgg ctttctttgt ccacgatgct gagatcgtct 240
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 agggtcacag tgaggcagtc atttctgtgg ctttcagccc tacgggaaag tacctggcca 420
 gtggctctgg agacaccacc gtgcgcttct gggatctcag cacagagaca ccacatttca 480
 catgcaagga cacngacact gggtccttag gaaatccngg ntccaatggc aaaaactggc 540
 tcaagct 547

<210> 2563

<211> 575

<212> DNA

<213> Homo sapiens

<400> 2563

gcttccggca ccggccgagg tcgggtcgcc tccagagatc ctgtgccttc aaaccctacg 60
 agtccatact ttaaaacaaa atgaagaaag taaggcttaa ggaactagag agtcgcctgc 120
 aacaagtgga tggatttgaa aagcccaagc tacttctggg acagtatcct accaggccgc 180
 acattgcagc atgtatgctc tatacaatcc ataacactta tgatgacatt gaaaataaag 240
 tcgttgcaga tctaggatgt ggttgtggag tacttagcat cggaactgca atgttaggag 300
 cagggttgtg tgttggattt gacatagatg aagacgcatt ggaaatattt aataggaatg 360
 cagaagagtt tgagttaaca aatattgaca tggttcaatg tgatgtgtgc ttattatcta 420
 acagaatgtc caagtcattc gatacagtaa ttatgaatcc tccctttggg accaaaaata 480
 ataaaggac agtatggctt tccaaagncg ccttggaat ggcaagaccn ccgtatatcc 540
 ctanaccaat cccactggg gactgtccaa gaaag 575

<210> 2564

<211> 496

<212> DNA

<213> Homo sapiens

<400> 2564

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ggaaggtgcg tccgagccat ggccgctgcc aaccggtggg acccggcgtc cgcgcctaac 60
ggcgcctgggc tagtgctagg ccacttcata gcttcgggga tggatcaatca ggagatgtta 120
aacatgtcta agaaaacagt ttcttgtttt gtgaacttca ccagactaca gcagatcaca 180
aatattcaag ctgaaatcta ccagaaaaac ctggaaattg aactcctgaa actagaaaaa 240
gatacagcag atgttgttca tcctttcttt ttggctcaga agtgtcatac tctgcaaagc 300
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aaacccatgt gccaggaaaa cttacctatt gaagctgttt atcacagata tatggtacat 420
ttgctggagt tggctgtgac ttctattgag agattagaaa cccacctga aacaattagn 480
ntattccnca tttagc 496

```

<210> 2565

<211> 557

<212> DNA

<213> Homo sapiens

<400> 2565

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atcttctcac cgaagcttag tacagcgggt tgaacaatt tctctaggtg agcaccctg 60
tgacagagga gaacaagtaa ctctcttcct cttcaatgat tgcctagaga tagcaagaaa 120
acggcacaag gttattggca cttttaggag tcctcatggc caaacccgac ccccagcttc 180
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tgctgatcca gaatcctttg aagtaaatac aaaagatatg gacagtacat tgagtagagc 480
tcaagggcaa taaaaaggnc ttcaaaaagg gtacagggna ttccctttct ccaaactcca 540
aaagggtctt tcgangg 557

```

<210> 2566

<211> 471

<212> DNA

<213> Homo sapiens

<400> 2566

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gaaagactgg agccgtttcc ttgtggctgg agcgcttccc gtagcctcgg ggaaggagca 60
ggatttagag gaccactagt tggaccccat cctcgtgctg gaggaacagg aacctctttc 120
aggagctata aaagaaaggg gggaatcatg tccacaattg cagctttcta tggcggcaag 180
tccatcctca tcacgggggc cacaggcttt ctgggcaaag tgctaattga gaagctgttt 240
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tgtccaaatg tgcattgaga gatcagagct atttatgcag atctcaatca gaatgacttt 420
gccccatcagc aaagangana tgcaggagct tctctcctgt aacaaacnag a 471

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<210> 2567

<211> 516

<212> DNA

<213> Homo sapiens

<400> 2567

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cgcgatggag gccgccgccc agttcttcgt cgagagcccc gacgtggtct acggccccga 60
ggccatcgag gcgcaatacg agtaccggac gacgcgcgtc agccgcgagg gtggcgttct 120
caagggtcac cccacgtcca cgcgcttcac cttccggacc gcccggcagg tgccccggct 180
cgggggtcatg cttgtcggct ggggcgggaa caacggctcc aactcaccg ccgcggtgct 240
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ggctcgctga ctcaggcggg caccgtgagc ctgggcctgg acgccgaggg ccaggaggtg 360
ttcgtaccct tcagcgcggt gctgccccatg gtggcgccca acgacctcgt gttcgatggc 420

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tgggacatct cgtcgtgaac ctggccgaag cgatgcggcg cgcgaaagtg ctggaactgg 480
ggcttcaaga agaaattttg ncgaanatga ggnccct 516

<210> 2568

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2568

gttgccaggg agcggcgcn gagccctgag gggactgcgg cggctgcgag gaggagcgag 60
gcgcttgctg gggtcggggc tgcgcgacgg cgcaagggt gcggggagcg ccgcgcaggc 120
cgtgcagttc ctagcgagga ggcgcgccc ccattgccgc tctctcggtg agcgcacccc 180
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tacacgtca tccctgctgt agtgatcata gctgtaggag ccctgctttt catcattggg 420
ctaattggct gctgtgccac aatccgggaa agtcgctgtg gacttgccac gtttgtcatc 480
atcctgcnci tggtttttgt cacagaagtt gtttagtggg tttnggana 529

<210> 2569

<211> 520

<212> DNA

<213> Homo sapiens

<400> 2569

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cgggggcacc ttccagccct acctagacac ctigcggcag gagctgcagc agacggaccc 120
aacgctgttg tcagtagtgg tggcggttct tgcggtgctg ctgacgctag tcttctggaa 180
gttaatccgg agcagaagga gcagtcagag agctgttctt cttgttggcc tttgtgattc 240

cgggaaaacg ttgctctttg tcaggttggt aacaggcctt tatagagaca ctcagacgtc 300
cattactgac agctgtgctg tatacagagt caacaataac aggggcaata gtctgacctt 360
gattgacctt cccggccatg agagtttgag gcttcagttc ttagagcggg ttaagtcttc 420
agccggggct attgtgtttg ttgtggatag tgcagcattc cagcgagang tgaaagatgt 480
ggctgagttt ctgnatccaa gtccccatt gacatanggg 520

<210> 2570

<211> 544

<212> DNA

<213> Homo sapiens

<400> 2570

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catcccgggc cagccgggtca ccgccgtggt gcaaagagtt gaaattcaca agctgcgtca 120
aggtgagaac ttaatcctgg gtttcagcat tggaggtgga atcgaccagg acccttccca 180
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ccatggggca caggggcctg agatggtggg tctctgcttc ctgggcctgc atggaaggaa 300
cagacttcat ctctcaaacc atgctctcta agaaggcatc ggaagtgacc tagtgagaat 360
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catcagcagg gccggtgcat ggtggtgcag caactctgcc ccggctctct cagaacatcc 480
tactgacca tatgtgctgg gaaaagctgg gttcaaggga aaaaggacgg ctaaaaatnn 540
ncca 544

<210> 2571

<211> 587

<212> DNA

<213> Homo sapiens

<400> 2571

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 gacgaagcag gacctaggtg gcggcggttg taccggctgc aatggtgtcc aatcccgtgc 120
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 gaagtcagac gctgagctac aggaacggct atgcaattgt tcgacgtcca acagttggga 240
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 gtaaggcacc agtcttaact tatggccaac ctaaacaagc cccacctgcg gattttattc 360
 ctgcgcattg ggcctttgac aaaaaggtagc tgaaatttga tgcctatttc caagaagatg 420
 ttccnatgtc aaactgagga accagtatan gggttccgtc aggtgaacat ttantaatta 480
 atctagaaag atgaccagca tgtctgtcat aagagcctgt ttagaaaaat tctgggaatc 540
 cttcaagggc aagttaatta aaaccgccag cggggtagcc aagaatt 587

<210> 2572

<211> 690

<212> DNA

<213> Homo sapiens

<400> 2572

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 gccggctcca ttcccctaac caggccagcc cattccactt cagtgtccat gtccaggctg 120
 tcaactgccct ccaaaaatgg ttcaaagaag aaaggcctga agcccaagga actcttcaag 180
 aaggcagagc gaaagggcaa ggagagttca gccttggggc ctgctggcca nttgagctat 240
 aatctcatgg acacatacag tcatcaggca ctgaagacag gctctttcca gaaagcaaag 300
 ttcaacatca ctggtgcctg cttgaatgac tcagatgacg actcaccaga cttggacctt 360
 gatggaaatg agagcccatg ggccctattg atgtctaacg gcagtacgaa aagggtgaag 420
 antttatcca aatctcggcg aaaccaagat agcaaagaaa gtagacaagg ctaggctgat 480
 ggcagaacag gtgatggaag acgaatttga cttggattca gatgatgagc tgcagattga 540
 cganagattg ggaaaggaga aagggaccct gatnataaga caaaatttcc ccgggaaatt 600
 gcccgctgcga anccttgctc tgaacccaac ccganttcgt gaancaggaa aaatttaatt 660
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<210> 2573

<211> 760

<212> DNA

<213> Homo sapiens

<400> 2573

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aattactatg aaattctggg agtttctcga gatgctagtg acgaagagct taagaaagct 60
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gctttcaaag caataggaaa tgcatttgca gtcctgagca atcctgataa gagacttcgc 180
tatgatgaat acggagatga acaggtgact ttcactgccc ctcgagccag accttataat 240
tattacaggg gattttgaag ctgacatcac tccagaagag ctgttcaacg tcttctttgg 300
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acctcagact acatattctg catttattca gctacttcca gttcttgtga ttgtgattat 480
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aaaactttga caagggtac angaaggagc ttctctgcct tgactttggg agaaaaccat 660
tanaaaaagg attacctttg attatntcca gactagtgtt ttgggaangg anaaaccaca 720
aaagtccgaa ctgaacaaat tttggggcng ggatttttcc 760

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<210> 2574

<211> 629

<212> DNA

<213> Homo sapiens

<400> 2574

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gtgactgtgg agtttgaatt ggggtggcgg tgactgtaga gccgctctct ctcactggca 60
cagcgagggt ttgtcagcc cttgtctcgg gaccgcagcc tccgccgagc gccatggctc 120

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ctaggaaggg cagtagtcgg gtggccaaga ccaactcctt acggaggcgg aagctcgcct 180
 cctttctgaa agacttcgac cgtgaagtgg aaatacgaat caagcaaatt gagtcagaca 240
 ggcagaacct cctcaaggag gtggataacc tctacaacat cgagatcctg cggctcccca 300
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 tggaagangc ggcaacagct gacctggata tcaccgaaat aaacaaacta acagcagaag 420
 ctattcagac acccctgaaa tctgccaaaa cacgaaaggt aatacaggta gatgaaatga 480
 tagtggaaga ggaagaagaa gaagaaaatg aacgttagaa tcttcaaact gcaagantca 540
 aaaggtgtcc tccatccaan aagaaaactc agtccatacn aggaaaanga aaagggaaaa 600
 ngtaagccg tgctaact gttacccca 629

<210> 2575

<211> 732

<212> DNA

<213> Homo sapiens

<400> 2575

cttcgggtg agggctcctgc agcccgtgaa tccctgggtcc cgccgagact tggacctggt 60
 gcgaactgga ggcgaagcgg gtgcacccac aacctatagg aagggtggc ggcgagctct 120
 gagcactcgg gcgtcggagg gaacgctctg ctttcaacac tcttggcctt ttctcaagag 180
 aacatgaaaa tgaaaaaatt tcagatacca gtttcattcc aggacctgac tgtgaacttc 240
 acccaagagg aatggcagca actggacctt gctcagaggc tcctgtacag ggatgtgatg 300
 ctggagaact acagcaactt ggtctctgtg gggtatcatg ttagcaaacc agatgtgatt 360
 ttcaaattgg agcaaggaga agagccatgg atagtggagg aattctcaaa tcagaactac 420
 ccagacattg atgatgcctt agagaagaac aaggaaatcc aagataaaca ttgacacaa 480
 actgtattct tcagcaacaa aacactgatt acagaaagan agaattgtatt tggggaaaca 540
 cttaatctgg gcatgaatag tgttccctca agaaaaatgc cctataaatg tnatccanga 600
 aggaaacagt ttgaaaacta attcagaagt tattgttgcc aagaaaaccn anaaaacana 660
 aagattcctg atggataccg tgggatttgg ggaancatna aaaaaagtcc tttggggaaa 720
 tgaaaaaatt cc 732

<210> 2576

<211> 825

<212> DNA

<213> Homo sapiens

<400> 2576

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ttgttcagtc ctcaattggt ggacattttt tttattataa tgatgccatg atgatacgttt 60
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taataatgag cttcattgat ttgtaaatta tattatcttt gagattatat tcaaagctat 180
aaaatcatca actcttagga tcacaggcaa cctcaaaagt tgtctagttc ccatctattc 240
ctcgaccctc tctacggagt ttgtataaaa cccatatttt cattacttcc taactctgat 300
aattataggg gatataattt aaggattaaa actagtatct taaatgtttt tatatcagtc 360
agtttaaaaa ctaatatcca gtttagtctt tcagaacttt gagtcacgaa atgcatcttt 420
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gtgatgtttg gatcgttttt tttccttgn aattacaaa cgtaggtac attacccttt 720
tcctgtttgg ttgccaac attattgaaa ttgttttttt tcccgaan aaaggaattt 780
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<210> 2577

<211> 755

<212> DNA

<213> Homo sapiens

<400> 2577

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attctcatgg tcagtagcaa cttttggttc aaatatccca aaacatgctc aaaagtagaa 60

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cattttgttt caatattagg aaagtgttt gaatcccctt ggacgacaaa agcgttgtct 120
 gagacagcat gcgaagactc agaggaaaac aagcagagaa taacaggtgc ccagactcta 180
 ccaaagcatg tttctaccag cagtgtatgaa gggagcccca gtgccagtac accaatgatc 240
 aataaaaactg gctttaaatt ttcanctgag aagcctgtga ttgaagttcc cagcatgaca 300
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 aaaacagcca agtncatttt tattctctgc tatacagcga actttgtcaa cgcaatcagc 480
 tttgaacacg tctgcaagcc caaagttgan catctgattg gttatgaagt atttgagtgc 540
 cccacaatat ggcttacatg ttgaaaaagc ttctcatcca gttacatatc cattatttgt 600
 gtttatggct ttatctgcct ctacactctc ttctggttat tccgataacc ttgaaagga 660
 atattctttc naaaaaagtc ngaaaaanaa aaacagtttt agtgacattc caaaatttca 720
 aaaaacnaat ttgggnttcc tccttcccat gggtta 755

<210> 2578

<211> 576

<212> DNA

<213> Homo sapiens

<400> 2578

agctgatcgc aagactaggc aacctccagc cagtccctgg gtcgggcgga tcctcccaga 60
 ggtggcaciaa tggagcgtc tccaggagag ggccccagcc ccagccccat ggaccagccc 120
 tctgctccct ccgacccac tgaccagccc cccgtgctc acgcaaagcc agaccaggt 180
 tctggggggc aacctgctgg ccctggcgcg gcgggtgagg ccctggcggt gctgacttca 240
 ttcgggagggc ggttgctggt gctgatacct gtgtatttgg ccggggcagt gggactcanc 300
 gtgggtttcg tgctcttcgg cctcgccctc tacctgggct ggcgccgggt ccgcgacnag 360
 aaagaacgga gccttcnagc agcgaggcag ctactggacg acgangagca gctcactgcg 420
 aaaactctct atatgagtca tcgagagcta cctgcctggg tcagcttccc agacgtggaa 480
 aaggctgaat ggctcaataa nattgtggcc cangtctggc ccttctctggg ccantatatg 540
 ganaacttct ggctgaaact gtggctceng ctgtta 576

<210> 2579

<211> 467

<212> DNA

<213> Homo sapiens

<400> 2579

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agagtccccg ggccaagatg gctgcgcggt gctccacacg ctggttgctg gtggttggtg 60
ggacccccg gctgccggct atatcgggta gaggggcccc gccgcccagg gagggcgtgg 120
tgggggcatg gctganccgc aagctgagcg tccccgcctt tgcgtcttcc ctgaccttct 180
gcggcccccg agcgtgctg acattgagac ctggtgtcag cttacagga acaaacata 240
accctttcat ttgtactgcc tccttccaca cnagtgcgcc tttggccaaa gaagattatt 300
atcagatatt aggagtgcct caaaatgcc gccagaaaga gatcaagaaa gcctattatc 360
agcttgccaa gaantatcac cctgacacaa ataaggatga tccnaagcc naggganaan 420
ttctcccagc tggcagaaac ctatgaagtt ttgagtgatg aagtga 467

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<210> 2580

<211> 593

<212> DNA

<213> Homo sapiens

<400> 2580

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gctgcttggt aacaatgggg aagataatgg ctgcctgagc aacgtctccg agcaggcgct 60
gagctagagg cgggtctcaa ccagctactc attggaggcg ggcttgagag cggcggccag 120
ggaggtgcgg agcagcctcg gcggcggcgg ccgaaccaac cgagtcggat cctgacccta 180
aaacctagta ttttccactt gttcatcaat atggaaaact cagattccaa tgacaaagga 240
agtggatgat agtctgcagc acagcgcaga agtcagatgg accgattgga tcgagaagaa 300
gctttctatc aatttgtaaa taacctgagt gaagaagatt atnggcttat gagagataac 360
aatttgctag gcaccccagg tgaaagtact gaggaagagt tgctgagacg actacagcaa 420

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attaaagaag cccaccaccg caaaactcag atgaaaatag aggaggagac tcttcanatg 480
atgtgtctaa tgggtgactct ataatanact ggcttaactc tgtcngacaa actggaaata 540
caacaagaan tgggcaaaga agaaaccaat cttggagaac antgaatcng act 593

<210> 2581

<211> 892

<212> DNA

<213> Homo sapiens

<400> 2581

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ccctggaaca gtatgaattc tgctacaaag tgggtacaaga ttttattgat atattttctg 120
attatgctaa tttcaaatga agattcctgc cttaaaatat tttttaattt aatggtcagt 180
atattttgta aaaatcatgt taattttatt catanttgac attaatatct tccctaattt 240
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tatgcttttt aaaaattgga ataatgtatt aagggtcaaat aatatcccat aaaatatata 360
tttctgctaa tattagtaaa tatcttaatt tttcattana ttcatatcat ttaatttcac 420
atattcaaca cctttaaatg ttgtaatctt aatatgcaa gtgtgcctct gcaanatact 480
aacacaaagc tcatgttaag aaaacagttg aggactcgga agtcagttga aaatgcactt 540
tcctaacagt gaattcacia ccctgaacag cagcattttt ggaaggcaaa ctgttcgtga 600
tgggtacaatg taaatggggg acttctgtaa agttctcagt ttcgggtccat gtggtttatc 660
tttacatttt gaanatcaaa aaaatcttta caacctgaaa tccaggtcct aaaacaccnc 720
taaaattact ggggactata aattaatatt ttaaaaaatg cctgtttcta caccatcna 780
anaacggttg tctacccta atctttgggt gnaacaaaa aaaaaaattt tnaatgcctg 840
ggggtggtnc ccggtgaaa cccccggggg tttggggttt caanaaaaaac cn 892

<210> 2582

<211> 776

<212> DNA

<213> Homo sapiens

<400> 2582

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agttttgttt acttaccatg gcaatagtg ctttttagcc actaaaagt atgaaactgg 60
atggacaacg ttttttgact atgacagtga aggtcgtctg acaaagtta cgtttccaac 120
tggagtggtc acaaacctgc atggggacat ggacaaggct atcacagtgg acattgagtc 180
atctagccga gaagaagatg tcagcatcac ttcaaactg tcctcgatcg attctttcta 240
caccatgggt caagatcagt taagaaacag ctaccagatt ggttatgacg gtcacctcag 300
aattatctac gccagtggcc tggactcaca ctaccaaaca gagccgcacg ttctggctgg 360
cacgccta at cgcacgggtg ccaaaagaaa catgactttg cctggcgaga acggtcaaaa 420
cttggtggaa tggagattcc gaaaagagca agcccaaggg aaagtcaatg tctttggccg 480
caagctcagg gttaatggca gaaacctcct ttcagttgac tttgatcgaa caacnaagac 540
agaaaagatc tatgacgacc accgtnaatt tctactgagg atcgccctacg acacgtctgg 600
gcacccgact ctctggctgc caagcancaa gctgatgggc cgtcaatgtc acctattcct 660
ccacagggtc aattgccagc atccagcgaa ggcaccacta gcnaaaaaan tnaattatna 720
cggacagggg aagatcntgt ctcggttctt tggctgatgg ttaaacaatg aatttc 776

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<210> 2583

<211> 597

<212> DNA

<213> Homo sapiens

<400> 2583

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agcaagcagg aagaggaggc tttctaaggc ggtcgctccg ggaaatccgg gccctaggat 60
tgtccactca tcccagtatc agcgagatac ggggaagata gagttagcga cagcgtgagc 120
cagagctgga gcacgtttgg tgagagacca gaaagcaatg gangccggag aggggaagga 180
gcgcgttccg aaacaaaggc aagtcctgat attctttgtt ttgctgggca tagctcaggc 240
tagttgccag cctaggcact attcagtggc cgaggaaacg ganagtggct cttttgtggc 300
caatttgta aaagacctgg ggctgganat aggaaaactt gctgtgaggg gggccagggt 360

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cttttccaaa ggaaaaaaan tgcatttgca gttc gatagg canaccgggg atttgttgtt 420
 aaatgaaaaa ttggaccggg angagctttg cggccccaca aaaccctgtt tcctaccttt 480
 ccagggtttta ctaaaaaatc ctttgcantt ttttcaggcg ganctacgga ttagggacnt 540
 aaatgatcat tccccagttt tcctanacaa anaaatactt ttgaaaaatt ccaaaaa 597

<210> 2584

<211> 710

<212> DNA

<213> Homo sapiens

<400> 2584

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 actgaaccaa acccggaac atcttctgtg tcaacaacaa ccagcagtagt caccaccacc 120
 accatcacca ctctctctc tcgaatgcag cagccacaga tctctgtcta cagtggttca 180
 gaccgacatg ctgtacaggt aattcaacag gcattgcacg ggccccccag ctacagctgct 240
 cagtaccttc agcaaatgta tgcagcccaa caacagcact tgatgctgca tactgcagct 300
 cttcagcagc agcatttaag cagctcccag cttcagagcc ttgctgctgt tcaggcaagt 360
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 tcccaaacgt ctgtaagttc cctaaatctt ttttttcctg gatttaaaat tttaaagaat 480
 tgttttccaa aagtaaaactg ttgttatctt tgaagctgtt attataattt gttgcatgct 540
 gtttaaagta acaattgccc agaaatagaa atgataaaat tcaagaattc agaactagtg 600
 ttnaacttat gaaaatctga atcttaaaaa aatcttngg tattatttct ggtatatcca 660
 tttgcactga tcatgttcca aatcttaagn tgggttncan cttnctgtgt 710

<210> 2585

<211> 518

<212> DNA

<213> Homo sapiens

<400> 2585

gagtcgccgc tgggcctgtc cgctggcgtc atggcaccga aaaagaaagg gaagaaaggc 60
 aaagccaaag gcaccccgat tgctgatggg ctgctccag aggacatgag caaggagcag 120
 ctgtttatit ttaggtgaag ttgagtcctc cctctttctt ccttgccctt cgccggccac 180
 acgccccgtt gccgtgcatg ggccctgat cagtgcctca cctgaccac tgcacctggc 240
 cagggtggagg agcatgtcag ccgcatccgg gaggagctgg accgcgagcg ggaggaacga 300
 aactacttcc agctggagcg ggacaagatc cacaccttct gggagatcac acggaggcag 360
 ctggaggana agaagctgag ctgcggaaca aagaccggga gatggaagaa gccgaggaga 420
 ggcaccaggt ggagatcaag gtgtacaanc agaaagtga gcacctgcta tatgagcacc 480
 anaacaacct gacanaaatg aangctgang gcactgtt 518

<210> 2586

<211> 670

<212> DNA

<213> Homo sapiens

<400> 2586

agacacggaa gtgctgggag gcgccgggag cccgttcggt tgcgggtgtc tctggccctg 60
 cggtcagccc tgggaacgtc ccggagagct agattcctag aggcccgatt ccgctagccc 120
 ggaacagaca aagccagcgc tcccgcccgc tccccgactt aggatccgat gccggcagcg 180
 tcctggggcc cccgtagcgg ggctggacca tgancctgct ggacggcctc gcttcctcgc 240
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 aagaaagaan gtncttgcta aagaaactcc tccagcttca ggctctaact gaaggggaaa 480
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 ctgtgggaac tatacaggga gctgggccta tttcanggcc cancactggg gctgaagaac 600
 catttgggaa gaaaacttnn aaaggagaaa aaagaaaaag gccnagaaaa caacaaactg 660
 gaaaatcatc 670

<210> 2587

<211> 752

<212> DNA

<213> Homo sapiens

<400> 2587

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tttcccatg tctaattttg ggatttcagt gaggcctttt ccatctgtcc aggagaacag   60
aagggaaaaa aagatacttg aaagaaactg aaggaaattt aaacaaagaa acacttgaaa  120
gaaactggaa agaaaaataa tttttttatg tgaacaaatt ttgcaagaag aaaaaagcat  180
aaaagacact aacggcaaatt ctatgtttta atggaaaatc gtctaactgg agaagggcgg  240
tatccacccc acattcggat cccaggggcc tgaggcctcg cattgagctg ggggttcctt  300
ctgagcccca gtgtgtgtgg aatcagtgca ctcttgactg ggcctgtagt aaggtgctca  360
tggggtttgt cttctcacc accatcagag gacttttaaa atcataggcg tananagtta  420
gctatctgct gaattactgc cactcttctt ggtgggggct cctanctgtg gctgggggct  480
ccaggcgccc ctgtgattac ctctactgc caccatggcg ctcatcana ttccccactc  540
tcactaacat tgcttccttt ttgaccanc aggaaacagc aggtctggcc anattctcac  600
ttgcccatca atctcgttct tgggatgatt tccctcattg tgatgcttct ggggcacgtt  660
gaacatatnc acctctanaa nctaaccagg cticcttcta ccantgtng ggcgggcttg  720
ggtctggtta ccttgtctgc tctgccattc ca                               752

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<210> 2588

<211> 734

<212> DNA

<213> Homo sapiens

<400> 2588

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actccgcct tcatttccca tcgtgctgag gcgggtggca tggcgganaa ggatgacacc   60
ggagtttgac gaagaggtgg tttttgagaa ttctccactt taccaatact tacaggatct  120

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gggacacaca gactttgaaa tatgttcttc tttgtcacca aaaacagaaa aatgcacaac 180
 agagggacga caaaagcctc ctacaagagt cctaccaaaa ggatctctca gtgctatttg 240
 ccttcattag cttgctcggt atgcttcccg cttggtggat tgtgtcttcc tggctggtat 300
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 aactacaagt gaccctaaaa aaatacagcg ttcatttggga agatatggcc acaaacagcc 420
 gagctttttac taacctcggt agaaaagctt tacgtctcat tcaagaaacc gaagtgattt 480
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 gtcagcatct catcggtctt cggaagctg tctaccgaac tctaagancc aacttccaag 600
 cagcaangct agctacccta tatatgctga aaaaactacc ccctgaactc tganantgac 660
 aatgtaacca actacatctg tngtgggtgcc ttttaaagaa ctggggcttg ggactttatt 720
 gaanaacnga tttc 734

<210> 2589

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2589

gnaagctgcc tccgccatct tggagatggg agacgggcga tggctgtggt ctttctgcta 60
 atgcaaaca caaaacgggc aactagtca cccccgaggg aggccaccat cactgtaact 120
 gttggccaaa gctacaaaag aagcgaggga atccaaccga ggcgagcgac actgagaaca 180
 gcttcccctg ctttctgcgg cggcagaagt gaagtgcctg aggaccggaa ggatggtgca 240
 gtcctgctcc gcctacgggt gcaagaaccg ctacgacaag gacaagcccg tttctttcca 300
 caagtttctt cttactcgac ccagtctttg taaagaatgg gaggcagctg tcagaagaaa 360
 aaacttttaa cccaccaagt atagcagtat ttgttcagan cactttactc cagactgctt 420
 taagagagag tgcaacaaca agttactgaa aganaatgct gtgcccacaa tatttctttg 480
 tncctgagcca catgacaaga aagaanatct tctggancca canggaaca 529

<210> 2590

<211> 670

<212> DNA

<213> Homo sapiens

<400> 2590

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agtgtgcaaa cagctatgga aagtgaactc ggagagtcta gtgccacaat caataaaaga  120
ctctgcaaaa gtacaataga actttcagaa aattctttac ttccagcttc ttctatgttg  180
actggcacac aaagtaaggc tgttgctttc aatgcatgca atattaactt tgagtgttta  240
ctaactctgt gttttgctta cctggctttt cttccttgaa gttgcttttt ttttcctcc  300
aagaggaatt atttaaaaag actttagtct gtgacataac caagatttat tctgtttacc  360
taaggaactt attttctttt ttgcaatttc atttattctg agtcacttta tttgtaataa  420
gtgaagaatt ttaatactta gaaataagtt gtnaagaaaa taatgagaat cttacatgc  480
tttagaggaa cgtaatttct anaaatagtt aaaagatgaa atactaagat attattttac  540
cttctttata tagctgtata tactggtagt atgaaagcaa ctagtgtcnt tgatgaattt  600
ttgggggggt atttttggta ttcctaggct tgctgccacc tcntttanaa aaaggtggcc  660
atcnaagcnc                                     670
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<210> 2591

<211> 720

<212> DNA

<213> Homo sapiens

<400> 2591

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gagcttggga tcgctttctg ctattcaacg tcctccacct ctgccccct cccccccag   60
ccggtgacag gctgttgccc tgtgatctgc aggtcctggg acgtgcacag acagctaaga  120
tgccaggaca ttccagaagg tgggaaaggc acctgagtaa tttgactctc ctgcctggac  180
ccagcgtaca gatgggattg tgcttcattg ctggaccag catttaggga tcgtcactcc  240
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agaagttgca gtgagccaag gtcgcaccac tgcactccag cccaggcgac attgtgagac 360
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 cggcccacna ataggattgt gccnactgc tggaccant gcctaanttg atgttactct 660
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<210> 2592

<211> 551

<212> DNA

<213> Homo sapiens

<400> 2592

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 ctcagcaagt cttgcagaag gaatgtcgtc ccangtttgc caagacatca atggcgctgt 480
 tatttgagca caggtatagc gtggacttac tcccttttgt ngcncaangc cccccaanac 540
 agtgaagctg a 551

<210> 2593

<211> 716

<212> DNA

<213> Homo sapiens

<400> 2593

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gagctgctgt ttgaattatc tgtgaatgtt gggaagagga atgccagagc tgccggctga 180
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aatgaattat tatttcttca tgtttatgaa tttgaatgaa ntgatgttct cnaaanaacg 660
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<210> 2594

<211> 642

<212> DNA

<213> Homo sapiens

<400> 2594

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aggacttacg gcagtggggg ctgacaggga ttcacctacg ctcttaccag ctggaggag 180
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natttgcttg aaagatncat catttctaaa atcattccct tggagtgttc ttgttggtga 540
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<210> 2595

<211> 539

<212> DNA

<213> Homo sapiens

<400> 2595

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ggtgccaccg gccattgtcc aggcagctgt gtgcaagcca aagaagcatg aggacactgg 180
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acctggcaga aaacaccctc taccggctat gcccacagcc cagcaaggga gaggagctgc 480
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<210> 2596

<211> 656

<212> DNA

<213> Homo sapiens

<400> 2596

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aagggtctca tctgccgga ctaccgtggc gacgtggaca tgtcagaggt ggagcacttc 180

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 tacttcaagg gagctggagg aggagagcat ccgggacaac tttgttatca tctacgagct 420
 gctggacgag ctcatggact tcggctaccc ccagaccacc gacagcaaga tcctgcagga 480
 gtncatcact caggaangcc acaagctgga aacagggggc ccgcggccac canccaccgt 540
 caccaacgcg gtgtcctggc ggtccgaaag catcaagtat cggaagaat gaagtgttct 600
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<210> 2597

<211> 580

<212> DNA

<213> Homo sapiens

<400> 2597

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 cgtcgacatg gtagtgagtc ccgaagtcgg gaccatcgtc ntgaggatcg tgtgcattac 480
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<210> 2598

<211> 711

<212> DNA

<213> Homo sapiens

<400> 2598

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cactccccct gagagtgggg attttcagga gatggtatgc caggcctgca tgaaacgttg 180
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ccagacagtg ttaagaatg aaagcctcaa cgcagaatca aaatctggct gcaaacttca 480
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tattcctgac agatgaatac gacncagttc tggcttatga aaacnaaggg aagattgccc 660
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<210> 2599

<211> 808

<212> DNA

<213> Homo sapiens

<400> 2599

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ccagagtiga cagacaaaca caagcttgca gatatatgta aaaatctaaa tttccggcac 180
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gtattaattc caaagtatgg tttagaaggg acagtctttt ttgaagaaaa ggacaaacca 360
aaccacagc ttatttatga tgatgagata ccctcactta aaatagaaga tacagtgttc 420

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catgtatttg ataaagttaa agtgaaaatc atgttagact catctaact tcaacatcag 480
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ttcaaacaatg gaccttaatg gaccnagaa aaagaagatg aagcttggga aaatagctat 600
attcaacaaa aatcttcaaa gactggtttc ttttttaaaa gaaaaaactt gaaagaacac 660
ttctaagcct aagtgtgtga tacagtttgt tacttttaag ttcattttga ataaatttca 720
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<210> 2600

<211> 479

<212> DNA

<213> Homo sapiens

<400> 2600

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ntttcggctg tggagatgac cccattaccc acatgcctcc agtttaacaa atgtggcccc 360
tgtgtatctt cccagattgg ctccaactgc agttgggtga gtaaacttca aagtcnanag 420
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<210> 2601

<211> 684

<212> DNA

<213> Homo sapiens

<400> 2601

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 cctaccacctg gtctatacaa agtaccctgt gctactgcca tgaaactact tcgtgtcctg 240
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 gaaggcagcc tctcgccac ccttccttaa tcccttgac acangttnt gggctccacc 660
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<210> 2602

<211> 655

<212> DNA

<213> Homo sapiens

<400> 2602

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 tggaccgcac tccctacctg ggggatgtcg ctgttgtcgt gcaccctggg aaaaaagaga 180
 tgggaacccc actcgcagac actcctaccc ggcccgtcac ccggcatggg ggcatgaggg 240
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<210> 2603

<211> 807

<212> DNA

<213> Homo sapiens

<400> 2603

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cccaggancc anaatcatct tctttgggtc tacaaccatc ttaatgaact tcctgtacct 660
gctggggaaa aattctgaac aactatatct nggatacaca naaaaaagcc ccctcttggg 720
cgagatatna aaattaantt tatgttcccta ggaaccatcc tattantccc ccaaaaacaa 780
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<210> 2604

<211> 680

<212> DNA

<213> Homo sapiens

<400> 2604

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ccttaggaga gacgagcagc cttcagggag cgtggagaca ggctttgaag acaagattcc 180
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acagaagaga aactaagct ccgatatctc cctgttctct tattgaaaac ttngccgccg 660
cgtnttttcc agactgcnta 680

<210> 2605

<211> 621

<212> DNA

<213> Homo sapiens

<400> 2605

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621

<210> 2606

<211> 725

<212> DNA

<213> Homo sapiens

<400> 2606

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<210> 2607

<211> 557

<212> DNA

<213> Homo sapiens

<400> 2607

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ngggacatgt nagtgct 557

<210> 2608

<211> 549

<212> DNA

<213> Homo sapiens

<400> 2608

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<210> 2609

<211> 503

<212> DNA

<213> Homo sapiens

<400> 2609

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cagaanacac ccggctgtct gga 503
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<210> 2610

<211> 666

<212> DNA

<213> Homo sapiens

<400> 2610

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<210> 2611

<211> 708

<212> DNA

<213> Homo sapiens

<400> 2611

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ccacctccgc ggccctgggc gccgtggtgt cgacggggccc cgagcctatg acggggccagg 180
gccagtcggc gtccgggtcg tcggcgtgga ncacggtatt ccgccacgtc cggtatgaga 240
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ccatcaagtc atntaaaaca gaaggaagan ctgaacgttt agaggcaaca gaataccttg 540
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aactcgccctt atgttacant atgatgctgt tgttaactcc ccacnccga cnatattaaa 660
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<210> 2612

<211> 724

<212> DNA

<213> Homo sapiens

<400> 2612

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 aaatggagtt aaaaagtctt ctgataagca gaaagacctt aatgaaaaat gtctatatga 180
 agtaggaaga gatgataatt ctaaaaaaat catggaaaat tctggtatcc aaatgggttc 240
 aaaaaatggc aatttacagt tacacactga taaaggaagt tttctgaagg agaaagataa 300
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 tagaatgagt ttaagacaaa ggaaaacaga gtttttcaaa agcagcactt tatttaacaa 480
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 gtctaaagct gaatctgaag ccagcttgct naatgtttcc acgccaagt cactanaaga 660
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<210> 2613

<211> 701

<212> DNA

<213> Homo sapiens

<400> 2613

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 tccattttac agatgagaaa atagaccag agagggttaag tcacacggtg gtttgtggca 180
 aagctagaaa cataactgtg gtctcctctt catagttctt tccactacac tattacattt 240
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 gaatganccc anatcacgcc acttgcactc ctgcctaggc nacanaacta gaccctgtct 660
 ccaaattaaa aaanaaagga ttaaggaaaa tttgattaat a 701

<210> 2614

<211> 576

<212> DNA

<213> Homo sapiens

<400> 2614

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 gattctccat gggacgagtt ggctctggcc ttctcccgca cgtccatggt tccctttttt 180
 gacatcgcg cactatctagt gtcagtgatg gcggtgaaac gtcagccggg agcagctgca 240
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 aacatattac tggcatcttc aatctggtat attacatttt ttgcccgcga tgacctantt 420
 tcccagggtt attcatatct acctgttcaa ctactggctt cgggaatgaa ggaagtgacc 480
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<210> 2615

<211> 686

<212> DNA

<213> Homo sapiens

<400> 2615

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cagagtatgg aagcacctga ctacgaagtg ctatccgtgc gagaacagct attccacgag 180
 aggatccgcg agtgtattat atcaacactt ctgtttgcaa cactgtacat cctctgccac 240
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 ggcgtaacaa tgtctaccta ctccattgtg tggaccaaag gagatgggta atgtgaaagc 360
 cctttgtgaa cctgaagtga gcaactgctg gatgaatgtc attacgggca caggctctgt 420
 gtcatactct ctccatagtgc ttccacagcc aggaccagag acctccctga tgactgggga 480
 acctgtggat gatgaaaatg ccaccgtcaa caagattgcg ctcganctgt gcacctttac 540
 cctggcaatt gccctgggtg ctgtcctgct cctgcccttc tccatcatca ncaatgaagt 600
 gctgctctcc ctgcctcgga aactactaca tccantgggt caacgggntc ccncatccca 660
 tggccctgga aaccttgntt tttcct 686

<210> 2616

<211> 722

<212> DNA

<213> Homo sapiens

<400> 2616

tatattatcc tgtacatgca aatcactgag gagcagatta aagtatggac agccaacccc 60
 caacaatttg tagaagatga agatgatgat acattctcct atactgttag aatagcagct 120
 caagacttgt tgctggctgt ggccacagat ttccagaatg aaagtgcagc agccctggct 180
 gctgcagcca ctgcacattt acaagaagct gagcaaacca aaaacagtgg cactgagcac 240
 tgggtggaaga tccatgaggc atgcatgctt gccctaggct cagtgaaggc catcatcact 300
 gacagtgtga aaaatggcag gattcatttt gacatgcatg gggttcctgac caatgtcata 360
 cttgcagacc tcaacctctc agtgtctcct ttctcttgg gccgggcaact ttgggctgcc 420
 agtcggttca ctgttgctat gtcccctgaa ctgatccagc agttcctaca ggcaacagtt 480
 agtggctctc acgagacaca gccccatca gttcgaattt ctgcagttag agccatctgg 540
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 cagcatcctt gatgggctta attcccctan cagcccagtt cacncagang tcctcaacct 660
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gg

722

<210> 2617

<211> 624

<212> DNA

<213> Homo sapiens

<400> 2617

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gatgcggctg tgattgctga attgtctggg caggtttgga gtctctggca agctcccctg   60
actgtgcatt cctctggaga cgaagaggag ggggaggcct gtcctctctg ggatccattg  120
gtcacatccc cctgaggatt cccgaatgcc tacctccagt gtcgtcaaca tggagtctctg  180
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cgttccccct cagcctgggt gctgggctcc tcggctggcg gcggggacgt gttcatccan  540
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canccccacc accatttcca ccat                                     624
    
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<210> 2618

<211> 743

<212> DNA

<213> Homo sapiens

<400> 2618

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ttattctagt gtcaaattcc acattttaaa taaatacaga aatgattttg atgattctcc  120
atttctccca caagaacaaa aagcacaaat aagggaacaa ccgtgtgaat gtaatgagca  180
    
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tggcaaagcc tttagagtgt cttcaagcct tgctaaccat caagtaatcc aactgcaga 240
 taacccttac aaatgtaatg aatgtgacaa ggtcttcagt aacagttcaa acctgtaca 300
 acatcaaaga attcactctg gagagaagcc ttacaagtgt catgaatgtg gcaagctctt 360
 caatcgaatt tcactccttg cagcacatca gagaatacat actggagaga aaccttaca 420
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 ccacactgga gagaaacctt acaaatgtaa tgagtgtggc aaggcttca acagaaatgc 540
 acaccttgca cgacatcaga aaattcatag tgggananaa accttacaac tgtagggaa 600
 tgtggcaaag cattttcagg gggttcangc cttactgctc atcttggtat tcacactgga 660
 nanaacttta caaatgttat aaatgcggga aggtcttcca tccaaatgcc nccttaccag 720
 actccaagaa accatnctgg ana 743

<210> 2619

<211> 517

<212> DNA

<213> Homo sapiens

<400> 2619

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 cgcgcccttg gggccaggcg gtccggtgtg gaccaaggag acgcgcaccc gccacctgcg 120
 ttcccganac tttctggcac cgcaccgcgc gctgcaggcg cgcttcgatg acggccagggt 180
 tccggagcat ttgtccatg ccctcgcttg cctgcagggc cccggtgtgg ccccggtgct 240
 gcgctgcgcg ccgacccccg cgggtctgtc tctccaactg cagcgggtccg ccgtcttcga 300
 ncgcgtcctc ancgccgtgg ccgcctatgc cagccccgc tcnctgcct cgctgggcca 360
 gcgcgtctta ctacactgcc caacactgcg cagntcccc tgccgcgtca cggggtgtgc 420
 gtgcgcctag tgccanctgt gcgggatccg cacatgctga ccttctgca ncaactgcgg 480
 gtgnactggc ccgtgcctc ngaaaaanct tcctccc 517

<210> 2620

<211> 553

<212> DNA

<213> Homo sapiens

<400> 2620

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gccccctctg ctgatgcgcc tcctccctca gcaccatgga cctgctggac tggggcagcc 180
tcacgacag caggaccaag ctgtccaagc acttggtagt cccaacgca caggtaacac 240
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tatggcccca cagacccct gtggtccagg gggaanaaga caagcccact antgtccaca 420
gantgcttgg cgggacagaa acccagcgg aagccttaag acaccacaan gaaaagggt 480
ctgggggcct tcccaagtc atctgtcttg tgcatcangt caccctaac ttcanaagcc 540
tnaaacggca nca 553

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<210> 2621

<211> 805

<212> DNA

<213> Homo sapiens

<400> 2621

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gtgggacgac atattgagaa gttaatatat atattaaatg tgtttgagtt ntggtcgact 120
ttctaaaagg taatcattta ataaaacctt gaatangagt tggataaat aaggaaggga 180
aaanattgac aagtcacccc aaaagcacag acacttnatg taggcaaatg aatgtctgtg 240
gttateccact cacaacttaa actttgaaat ccctgctttt tgactgcctc ccaggtttct 300
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cctgtaccct caggctccac ttcggttaggg aaggactttg gactccacac gggcaaagcc 480

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tgatctaaaa aagcagccag attcttgggtg acagtgaggc ccacacctct gangaagggc 540
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 ggctanactg atggcattct ctgacataaa ggttaacttc cagtanggcc ctgctaagct 660
 tggacagaaa agctggaatc tgaaactccc tggaaagggc aagaattggg gatcttttct 720
 ttgttatccc ccagtccta tctagtgcct aaatagtttt anntgaatta ctncctaaat 780
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<210> 2622

<211> 618

<212> DNA

<213> Homo sapiens

<400> 2622

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 aataagaatc tcatcaatcc atcaagcctg ctagaactct tctttgaact ttttcgttgc 240
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 aaggtcacca agatattagt tgccgctttg acattctttc ttgggaaaga tgaagatgaa 540
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<210> 2623

<211> 639

<212> DNA

<213> Homo sapiens

<400> 2623

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tctccagcgg ggacctgctc cgggacaaca tgctgcgggg cacagaaatt ggcgtgttag 180
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tgccctttga ggtcattaaa caacgcctta ctgctcgtcg gattcatccc gccagtggcc 420
gaatctataa cattgaattc aaccctccca aaactgtggg cattgatnac ctgactgggg 480
acctctcatt cancgtgagg atgataaacc agaaacngtt atcaagaaac taaaggctta 540
tgaagaccaa acaaaccagt cctggaaata ttaccanaaa aaanggggtgc tggaaacatt 600
ctccggaaca naaaccaaca anatttggnc ctatttttt 639
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<210> 2624

<211> 472

<212> DNA

<213> Homo sapiens

<400> 2624

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aaaaaatcat ntgataaaaa gatcacatgt acatgaagac aatggaaagt tatttccttc 120
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ctgctccctt catcngcaa caaaatatca tggatcgatg ttactttgan aactctctat 420
ccacagaatg tntgattcgg tcagccncca aatctgatgg gtgtcncatg cc 472
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<210> 2625

<211> 642

<212> DNA

<213> Homo sapiens

<400> 2625

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<210> 2626

<211> 738

<212> DNA

<213> Homo sapiens

<400> 2626

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<210> 2627

<211> 825

<212> DNA

<213> Homo sapiens

<400> 2627

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<210> 2628

<211> 807

<212> DNA

<213> Homo sapiens

<400> 2628

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atacgagagc gggagtgtag agactcggag gccgaggttg anaacaaaaa catgcacctg 180
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ttcaagtcca cagaacccaa atggattggg tgttgaaaca cagtgggtcc ccaacaattg 720
ccnaaangcg ccaacgaatg gcttccttgc gggcttccaa ggantcccat tttggnatnc 780
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<210> 2629

<211> 814

<212> DNA

<213> Homo sapiens

<400> 2629

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agtanagtgt ccggcttcgg tgccgagtgc caccgcgagt gggccgagac gcggagggag 60

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 cccctgacca ttcgtgcgtg gcacggagcc gggtatctgc gggtacagcg atgaacaggg 240
 cagacgtggc caggccacac taccatcacc ctttctcca accctgaaaa acagttcctg 300
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 ctgggtgctt gaacagttcc tgaacatcct ccctgggggg aactcccga acttgggttc 720
 aacttgcac nccccttgaa aaattgttaa agaaagcttg ttggcttttt gttggaaaga 780
 atttcccaaa aaaaccctc nanttgggan tnaa 814

<210> 2630

<211> 660

<212> DNA

<213> Homo sapiens

<400> 2630

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 atgccacctg tttagcanat gctgagggaac aagatatgcn gagagtgctt attgacatca 180
 gcgagaaaga agctgtgaat ctgcaacaag atgcctttgt agttatttgt agagatacca 240
 ggcccagcag tgagaaactt tcacaatctg taatagatgg tgtgactgtt ctaggaggtc 300
 aattccatga ttatggcttg ttaacaacac cccagctgca ctacatgggt tattgtcnaa 360
 acccgggttg ccgatatgga naggctacta tagaangtta ctaccanaaa ctctctaagg 420
 cttttgtgga actcacaaa caagcttctn gcagtggaga tgaatacaca tcaactaacg 480
 ttgactgtgc aaatggcata tgggccctga agctantggg aaatggaaca ctacttctca 540

cagggcctgt cagttcacct gttaaagat gggccaagg gcanactcan tcatttatgt 600
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<210> 2631

<211> 573

<212> DNA

<213> Homo sapiens

<400> 2631

agcgcagtat ggcgggcggg gcccgaggagg tgctcacact gcagttggga cattttgccg 60
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ccaaggagcc cccgggagag ctgtgccccg acgtcctgta tcgtacgggc cggacgctgc 180
acggccagga gacctacacg ccgcgactca tcctcatgga tctgaagggt agtttgagct 240
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aggggaagct caccacacac aaagaggaaac tctatcccaa gaacccttat ctccaagact 360
ttctgagtgc agagggagtg ctgaatantg atggtgtctg gaggggtcaaa tccattccca 420
atggcaaagg ttcctcacca ctccccaccg ctacaactcc aaaaccactt atccctacag 480
angccancat cagggtctgg tcagacttcc tcagantcca tctccatccc cggagcatct 540
gtatgattca naagtacaac cacnatgggg gaa 573

<210> 2632

<211> 806

<212> DNA

<213> Homo sapiens

<400> 2632

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ctggcagtac cggttggttcg tgctggacta caatgcagga ctgctctcct actacacgtc 120
caaggacaaa atgatgagag gctctcgcag aggatgtgtt agactcagag gagctgtgat 180

tggtatagac gatgaggacg acagcacctt cacaataact gttgatcaga aaaccttcca	240
tttccaggcc cgtgatgctg atgagcgaga gaagtggatc catgccttag aagaaacaat	300
tcttcgacat actctccagc ttcaagggtt ggattcagga tttgttccta ntgtccaaga	360
ttttgataag aaacttacag aagctgatgc ttacctaaa atcttgattg aacaattaaa	420
gctttttgat gacaagcttc aaaactgcaa agaagatgaa cagagaaaga aaattgaaac	480
tctcnaagag acaacnaata gcatgggtana atcaattaaa cactggcatt gtgttgctgc	540
agattgccaa aagtactatt aatcccgttn atgcnatata tcaacctatc ctttgggaac	600
ctgtgatcag cacaatgcct tcccagactg tgttacctcc agaacctgtt cagttgtgtt	660
agtcanaaca gcgtccatct tectacccat ttgganctgt ttttgggcta ccttggggaa	720
ctentccaga ctctacccc caaatTTTTT cagggcgntg ggccctttcc cccacccgaa	780
tttaccantc ctccncttcc ctncca	806

<210> 2633

<211> 570

<212> DNA

<213> Homo sapiens

<400> 2633

agaccggaaa cggaggagag cgcgggggat gtgtttggca tggggacgca ctgttacagt	60
tgcgctcctg gttggctttg tgtttccgcg gtgttggttag agtctcggtg tttctacctc	120
ttagcaccct ttctgccac cttttgtcct gtggaagccc ggagacatca gcggctgcaa	180
ttttgtact cgtgctcgg catggaacgg tcaggtaccg cagttcagcg ctcttggccc	240
cgcaggtcct cgggcatccc cgtgccccgt gctgtacatt cagttatcct ccgacttccc	300
ggggtcgaag gtattacctg ctgggtttta gaatctattg ctttacatct gagaaaagaa	360
aaatcccaga aagataagat gacttgccca agatcatagc gtgcctggaa agacagtgct	420
ccgattacaa gctggtcgct gtgcctcatt cgtcttgta tcaactcctg tcagtttatc	480
caagctccaa aagcgaantt gttttaactt ttgcttccca aganttatTT gatantctca	540
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<210> 2634

<211> 459

<212> DNA

<213> Homo sapiens

<400> 2634

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gataactaaa ttgaaagtgc tggcagtcga tntggggatt gattagaatc taggggagat 60
gtagttgtca gtgttcattc tgtatgtaac tcctgtcttt ggtttcagat ctggtaggt 120
tctgttgatc cttggggaac tttctcattt gtttttattt ttgccttgga tctatgaata 180
cctgaatgta ttgtctaaaa tggaaaaaac ttaatgtagc cattctatta ctatcactga 240
ccctaggcct gaaaaaagtc acacctaggg ttaaaaaatt tttatttnat tttattttat 300
ttacttattt agagacagtt tccctctttt gccaggctg gantgcattg gcatgatccc 360
acttactgt aacctctgcc tccaagctc aantgattct ataaccncaa gcctcctgag 420
tagctaggga ttacaggccc cncaccaatn cccaacnaa 459

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<210> 2635

<211> 780

<212> DNA

<213> Homo sapiens

<400> 2635

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agaaaaaatg aatgtcataa taaaatataa aacttacgta aagaaaataa agtcattgtc 60
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aaaattgaat ttatttcttt cacatggctg gtttgctgca atatgaagtt tcagaatggg 180
ctgaagtaag ttgattgagg gatttgagtt gaatgacatt ttcaagttca tttaaataatg 240
ataaaaattc attggtggta aataacatct gtctttcctg gaaaaaaaaa agttgtgtat 300
tttcatgatt cagttaaaac aaaaaatgag cctgtgaatc ccaggccttt ttagtcctcc 360
ataacatttg aacagtttga cttgtcagca aagaaatata cttatcaaatt tttaaaccac 420
tgggagcctg aaagtgttac agtgtactgc ttctttgaca aaattctgtt taacaactac 480

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cctaacataa tttataaatc aattaagata aaaccatttt tttctganta tttangaatt 540
 tgtgtcctca aaatactgtg acatgaaaga taggaaagaa attacctggg tgccagacat 600
 gcncgattat ctttcctcat ttcagctgga ttttccaaag tccgtanatt ggataaagca 660
 gcatctcatt cactgaagtc acaagatagg taggaacttc tttaatgtga atttgcata 720
 ttttaacnatt ccttnnaaaa acanaaaccc cttgatggat tataatntta aatgttttac 780

<210> 2636

<211> 849

<212> DNA

<213> Homo sapiens

<400> 2636

agaacgcaca ggagttccat ttttacaggt aataccctgc tttcagcgtg atggtttatt 60
 ttgtctacat gaaaatgggt gtataacttt acgtgttcga agatcttata ataacatttn 120
 taccacttca aatgaggaac cagatccaga tccagttcag gagcttacct atgatttacg 180
 aagccagtgt gatgcaatca ggggtgacaaa aaccgtccgt cccttcagta tgggtgtgctg 240
 tcctgtcaat gagaatgcag ccgccctcgt agtgagtgat ggcaggggtca tgatatggga 300
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 atattcacca gtgtctttct gtggaattcc tgtaggagtg ctacagaata aactcccaga 420
 cctttcctta gataacatga ttgggcaaag tgcaattgct ggggaagaac atcccagagg 480
 ttcaattctg cggaagtgc acctcaagtt cctgctgacg ggactgcttt caggactgcc 540
 cgcaccacag tttgctattc gtatgtgtcc accgttganc acaaaaaaca tcaagatgta 600
 tcagccactg ctggctgttg gtacaagtta atggctcctgt cctggtgtta catctacca 660
 gtggtctgct acacaaagan ttaagcatcc actcatgttn aantcaaggg gtattgaatg 720
 gacaaatttg actaagtttc cttccttttg gctacctcaa caccaaaca tatggggaat 780
 tangtgaana aattgaactt cnacctgggt tgaatcttcc caaccanggt taggaacant 840
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<210> 2637

<211> 759

<212> DNA

<213> Homo sapiens

<400> 2637

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atagcattgt aactcagaat ggtgaagtat gctggaaaac aatcacagac tgtgtgagct 60
acacagagtc agagcagggt ctggattact ggggaagcgt gaggctgctg ggccctgtgt 120
gtgaggctgt ccattcacat ttcttatctc tgaccaaggg gcaatttgaa attcgatatg 180
caccgtgggt ccagtggaca agttttccag agttatttcc tgaaatattt gatgccttgg 240
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gagccttggg tgatgtatct ttactgattg ggaaggaatg cccctttctt ttaagagatc 360
tgctttcatc tgaggagctt gctcaagtct tcagtcagtc tgtgatgaat gtgctaaaag 420
tcttcgttgg ctctccgtgt ggtctcaacc tgcgtaacgt cttatggcat gggtttgcgt 480
cacctgaaga aattcctcca aaatactgtt caatgatgat actgttgaac gcaggattgg 540
gtcagttact gaananttac cttcaaaaca ctaaacttac attggcacat cgctctttca 600
tatctcttac aaacctnaa gatttgattg tttttcctga tgttacttat gaagtgcttt 660
ccagtattan aaaaantgat gatnaaatct gcttttatat ttaaaaaatc ctgtttccat 720
attggggaaa ttgcnctggt ccaanttcaa attcccaca 759

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<210> 2638

<211> 571

<212> DNA

<213> Homo sapiens

<400> 2638

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gaaaagaggg gctgaagtcg cccttgaata accacagcag tggcacccac aaaggtgcag 60
ttcccacagc ctcatagctg cttgtaggtg ccacctctta aggccattac catagcaatt 120
aatactgaac atgagctttg gagcagacaa acactcaaac cgaacagggg gatggaggaa 180
aggagcttca atggcaagat ctcttggaact cctgtcctgg cccctcctcc ccctgcccc 240

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ccccgtctct cctcctgctc cccctctcag ancttgccct gaccctgctc ctctcccagg 300
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 ngaagctgca tcntgaccag gantatgagg tcacctggta catatcctgg agccccctgca 420
 caaagtgtnc aagggatatg gccacgttcc tggccgaaga ccgaaggta ccctgaccat 480
 ctttgttgcc cgcctctact acttctggga ccanattac caggaagcgc ttncancct 540
 gtgtcanaaa aaaaacggnc cgcgtgcccc c 571

<210> 2639

<211> 631

<212> DNA

<213> Homo sapiens

<400> 2639

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 ccagaaagag taccagagg agcctgagca cactccaccc tatctgttct ctgaaattca 180
 atcaaagtag tcaactctact tctctggaag cagaaagagg ctggaagttt ttctccagca 240
 gcagactgct cgacaaacac tgcgccaaga gctcctcagc agaagctcct cgcctcagat 300
 cctctgtgct gggaatcctc ccctcttgag cacactctgt gctcctcttc cagttacggt 360
 gcatgtgaan caatgggtatg ggaaaattgt ttgcagaagg atgaaaaggc ttatttgcca 420
 aactcttaag gtatcttgtt aataaaatca tttcataat ggaaaagact cagaaaattc 480
 ccctcgcatg acatataaca tccaacaagg ggctgaacca anaaaaaata ctgcagctgc 540
 tgctaattggc aacactgaag caagcacctg gcctgtgcca ngcactgtcc tgtgcantct 600
 gtgtttgcac tcattttatc ctcngancc n 631

<210> 2640

<211> 754

<212> DNA

<213> Homo sapiens

<400> 2640

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agcaacatgg ccgccgcctg agaggagagc cgggccgccg ccgtctctgc agcccgcggg    60
taactgggcc gttgccgccg tccgcgctcg gccccgcggg aaaaatcgag ctgaaggact   120
gcgcggctgg ctctcctcta gtatggccaa tgaagaggat gaccagttg tacaggagat   180
cgatgtgtac ttggccaana ntctggcgga aaagctgtat ctatttcagt accctgtgcg   240
tccagcctcg atgacctacg atgacattcc gcacctctca gccaagatca agcccaagca   300
gcagaaggta gagcttgaga tggccatcga caccctgaac cccaactatt gccgcagcaa   360
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agcggccaac gaagcagggg gactcttcac aggatgaagg cggaaaacga tgtttancag   660
atcacggtgn cggttctccc ggccggantc agaacagggc ccgcagcgcc cgtgttgcca   720
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<210> 2641

<211> 744

<212> DNA

<213> Homo sapiens

<400> 2641

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cactggcaga tggagctgcg cacctgcggc ctcccctaca tcaacctcga gttcctcaag    60
gcccacacca tgtaccaagt ggggctgatg gagacggacc agcacatcga gttcttctgg   120
ggggccctgg agatgttcac ccaggaggag ctgtgcaagt tcatcaagtt tgccatgcaac   180
caggagcgca tcccgttcac ctgcccctgc aaagatgggg gtcccgacac tgcccatgtg   240
ccccgtacc ccatgaagat cgccccccca gatggcacag caggttcccc agactctcgc   300
tacatccgcg tggagacctg catgttcatg atcaagcttc ccagttactc ctctctggaa   360
atcatgctgg agaaacttcg ttgtgccatt cactaccgtg aagaccccct cagtggctga   420

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tgggagggag ccccaacaatt aggctgtcac tgaggcacc accctgtctgg cttgggaagc 480
 caccactgcg gcccgtccct ccagggccct gcgtgaggag ttggcaacat ttgtcttttc 540
 caaactttcg tccacattcc agggcctcct ggaaaattaa ccttttgtct ttgtacgttt 600
 cgtgatgggt tggttctttt gctgcctgtt tgtggcttat ttgtangata gtttiantttc 660
 ccanaacagt ttgtgtctaa ttttgatctt tcttgggaca ttgtccctcc attggccacc 720
 anaattccta atngccatta aggg 744

<210> 2642

<211> 865

<212> DNA

<213> Homo sapiens

<400> 2642

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 aatatctcat attttaaat tccaccttat tggtagcttt catgacaaag ggctagggtg 120
 ctgatggcca tacaattaag gtttttggtt agttagttag cagaactaac tggctcctac 180
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 gaatctcaca tcctattctt attactgtca ggcagcgttg acctagcagt ataaaactat 360
 ctgaagcaat gtagtcactc agttctcata aagtttattt caagtactgt aacaattcat 420
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 gttatgagga ntttctttgc ttgccaagg tcacatanct agcaagttaa agtaaattca 600
 aatccaggcc tgctanatac caaattatta tttaagaata cttttcacta ctccataaatt 660
 atgacacaga tacntttgtc ttacacattt cactttattg tccagtttat taatatgttt 720
 tattttccaa aagttatttt ttggcaatt tcctttttta ttaattcccg tactttttta 780
 aaattttact tccatttaat ncaccgttct tcccttttaa ttcctttttt aaaattaaat 840
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<210> 2643

<211> 624

<212> DNA

<213> Homo sapiens

<400> 2643

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ccctgatggt gtggcaggct ctggactcct aaagctctgg agcgaattta agattttatt 180
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nactccaggg agaaacaaaa cttctggcct ctgaaatcta tgacattctt cagtcctccn 540
atatggcaga tggatgatgt tttaatggag atgaatncac ctccaangga aagctcaatt 600
ttttctgggg aactacnaac naac 624

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<210> 2644

<211> 708

<212> DNA

<213> Homo sapiens

<400> 2644

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gactatacag gacatgttca tcctggaact tacacaaata ccttagaacg tctagtgaag 60
gaaatggaag acacacaaag gctagatgaa ctgcagaagc aactacaaga agacataagg 120
caaggccgag gcattaaatc cccaatcaga attggagaag aagacagtac agatgatgag 180
gatggcctct tagaagagca caaggaattt cttaaagaaat tttcagttac aattgatgct 240
attcctgac atcatccagg tgaagaaata tttattttcc tcaattctgg aaaaattttc 300

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aatcagtata ccttggattt aagagactct ggttttattg gacaaagtgc tgtagaaaaa 360
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 tctgcttate actatgtcca gtgtcctgtc cctgtgttaa agtggctgtt tcggatgatg 480
 tcagttcata cagactgtat tgtgtcagtg cagattttaa gtacattgat ggaaataacn 540
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 gtacagctgt gtttttccat atggggattg attttagatc tttgtttccc tggagaatct 660
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<210> 2645

<211> 644

<212> DNA

<213> Homo sapiens

<400> 2645

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 gagtcccaga cagtacttag cagtggctca gacccaaagg tagaatcctc atcttcagct 180
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 gaagaagaag aaagtgaaga tgagtctgag attttgaag agtcgccctg tgggcgctgg 300
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 gccatggata cagaggaagg tgtagaggtt atgtggaatg angtacagtt ctctgaacgc 420
 aagaactaca agctgcagga ggaaaangtt cgtgctgtgt ttgataatct gattcaattg 480
 ggagcatctt aacattgtta agtttcacaa atattgggct gacattaaag aaaaacaang 540
 ccagggtcat ttttatcaca gaatacatgt catctgggga atctgaagca atttctgaag 600
 aanaccanna agaacnccag acgatgaatg aaaagcatgg aanc 644

<210> 2646

<211> 752

<212> DNA

<213> Homo sapiens

<400> 2646

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ttgacctttc ggtgatattt ttgttttttt taatttgggg tgtgtgtgtg tgtgggtggtg 180
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gctttgtgat tactanttct tgacatgtta ggggtggcatt tactgcttgt ctcctgttca 300
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ctttttatat tgagattaat cattcatitt tttttganat ggggtctcgc tatgctgacc 420
aggctgttct tgaactcctg gtctccagtg atcctcctat ttcagcctcc caaagggcta 480
gaattacagg tgtgagccac tgcaactggc tatattaaga ttaatcttta ttctctattt 540
acagcaagta ttgcccact tgtgttctgt tnaacaaaga aatcaantgt ttttcctttg 600
taacgtanca caattaattt ctttgtcatt ttaatgcct cctttgaata aatttttttt 660
atcattaagg tggnaataat tatcccant aattttnatg gttgtttatt aatngaaaac 720
aaactttcct acccaaactt tttggggcat tn 752

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<210> 2647

<211> 828

<212> DNA

<213> Homo sapiens

<400> 2647

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tgcagtgggt cgatcatagc tcaactgcat ctcgaactcc tgggctcaag cgatcttccc 180
accccagcct cccgaggagc tgagactaca ggcgcgcgcc actactcccg gctaattgtt 240
caatattttt gtggaaacag ggatcttgct atgttcctat ggtgggtcttg agtccttag 300
cctcctaaag tgtttgtatc acaggcgtga gccactgtgc ccggcggtta caatcttctg 360

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ccccagggtc ggccacagtt ggacaggagc accctgcctc ccctgtagca ttcgtccccc 420
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 tcattctcca cgttacanc caaggggnat cttaatattt atttattaat tttaatttaa 720
 gtttttaaaa aaacagggtt ctttgttccc tggattttcc ccccnttgg gaattcnccc 780
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<210> 2648

<211> 786

<212> DNA

<213> Homo sapiens

<400> 2648

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 aatgcagtat aacctgcgac tgagggtcca gatggtcacg aaaatgcggg aatatctctg 180
 taatctgcat gggtttgttg atatagaaac cccacattg ttttaagagga cccaggggg 240
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 gtcctcaaca gttaagcaa cttctgatgg ttggcggttt agacagatat tttcaggttg 360
 cccgatgta tcgagatgaa ggttcaagac cagacagaca gcctgagttt actcagattg 420
 acatagagat gtcatttgta gaccagactg ggatccagag ttaattgag ggtttgctcc 480
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 atagatatca gtgatgttgt ttagaaacnc agagattgga tttcttcaaa atgcccttag 660
 ttaaccccct gggaactgtt gaaaagccat tttgttccc tgaaaggaac caaaataactt 720
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<210> 2649

<211> 546

<212> DNA

<213> Homo sapiens

<400> 2649

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cttttttccc gggaactaag tgttaaacaat ttaccagcac accactgcct agacttgta 60
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gagaatatca acttgagtat tttatccgtt gctttcttta attgggtcat ttcagagggt 180
gggtagattt tgtaagaca gttgaaatat ttaggtaggt agaggggtga gtgcagttga 240
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cgagtgtga gtcaaaggcc tgcaattcag gcccctgctc tggggcacgg tcagtttcag 420
ccaggcccaa ctctctttcc caggtccatg gcgtggatgg caccanaat ccagcanggg 480
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gaaata 546

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<210> 2650

<211> 783

<212> DNA

<213> Homo sapiens

<400> 2650

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aaggggctcc gtagctcggg gcagggtggg cgcgagagan cctagaagcc catgtagccg 60
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gccctggant gaaggaggag ccgtcacctg gagctccgaa aaaagcagaa gaaggcgctt 180
tttatttagc cagtgtgacc ccgccagggc cttctcggtt gggtgagcac tctctctgac 240
caggccatga aaagaaaaat ctgtgcgatg cctccccaca tgtcacggga ctctgacttg 300

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cctttgtcgt cagagtttgc agaactttgg gggacctgag aggggagtgc cccctggacg 360
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 tagtggcctg cttcagggcc acccacgggc cctccccaa cctctctctg atccaacttg 480
 ttttccagc ctaattggaa acttgtggat gctgtgacct caanaaaatt ggcattttat 540
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 ggggaaactt gtttttaang ggtgccactg tttttgttac atgttgctcc tagctcttan 660
 cattcatggg tactgttggt aaccgtccaa tgggttcaact tttgtctgct agatagaacc 720
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<210> 2651

<211> 718

<212> DNA

<213> Homo sapiens

<400> 2651

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 aaactcctgg gctcaagtga tctcctgcc tctgtcttcc aaattgctga gattactggc 180
 atgagccatt gcacctggcc ttcttttttg agatggcctc aggttggctc tgcctggaga 240
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 tgaaggaata caagcaggag atggaccttc tgctacagga gaagatggcc catgtggagg 480
 aactccgact gatccacgct gacatcaatg tgatggaaaa cactatcaaa caatctgaga 540
 atgacctaaa caagctgcta naatctacaa aggaagctgc atgatgagta taagccactg 600
 aaagaacatg tggatgccct gcgcatgact ctgggcctgc anaagctccc tgacttgtgt 660
 gaanaaaaag aanaactttc ctttggatta ctttgnaaaa gccanaaagc agaatggc 718

<210> 2652

<211> 700

<212> DNA

<213> Homo sapiens

<400> 2652

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acgcctcgtg accatcatgc tggccaacaa tgagactggc attgtcatgc ctgtccctga   60
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cctcgtgcac acggatgctg cacaggcctt ggggaagcag cgcgtggatg tggaggacct  180
gggcgtggac ttccttacia tcgtggggca caagttttat ggtcccagga ttggcgcact  240
ttatatacga ggacttggtg aatttaccac tctctaccct atgctatttg gaggtggaca  300
agaacggaat ttcaggccag ggacagagaa caccccaatg attgctggcc ttgggaaggc  360
cgcggagctg gtgaccanaa actgcgaggc ttatgaagcc cacatgaggg acgtccgcga  420
ctacctggaa gagaggctgg aagctgaatt cggtcagaag agaatccatc tgaatagcca  480
gtttccaggc acccagcggc ttcccaatac ctgtaacttt tccatccggg gaccccggtc  540
tcaagccacg tgggtgcttc gcagtgccga atgctgatgg ccantgtggg ggccgcgtgc  600
cactcggaac acggggacca nccgtcccca gtgctgctga actacggtgt cccttcnact  660
tggcaagaaa ncnctccggg ttcaangttg ggcccccccc  700

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<210> 2653

<211> 645

<212> DNA

<213> Homo sapiens

<400> 2653

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gaaattatcg gagggaggta gtanaagata tcaacaaatt attgaaatat ctggatttgg   60
aagaggaagc agacacaact aaagcatttg acctgagaca gaatcattcc attttaaaaa  120
tagaaaaggt cctcaagaga atgagagaaa taaaaaatga acttctccaa gcacaaaacc  180
cttctgaatt gtacctgagc tccaaaacag aattgcaggg ttttaattgga cagttggatg  240

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aggtaagtct tgaaaaaac ccctgcatcc gggaagccag ganaaganca gtgatcgagg 300
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 cttgtgagga gcacccatcc cataaagccg tctggaacgt ccttggaac ttgtctgaga 420
 tccaggana anttctttca tttgatggga aatcgaaccg attagaacta cntccggctg 480
 gaagagctgc tcaccaaagc agctgctagc cctggatgct gttgatccgc aggganaana 540
 aaaatgtag gntgccanga aaacaagctg tgaagcttgc gcagaaatat tctcagctat 600
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<210> 2654

<211> 705

<212> DNA

<213> Homo sapiens

<400> 2654

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 cattcaggct atttttagg gaaagaaagc tagaagacat ttaaaaatga tgcatatagc 180
 cgcaactctc attcagagga gatttagaac tctaattgat agaagaagat tcctctctct 240
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 cttacagttc cttcaggtagc aaaatgcagt tattaaaatc cagtcacat acagaagatg 360
 gatgataagg aaaaggatgc gagagatgca cagggtctgct actttcatcc agtctacttt 420
 cagaatgcac agattacata tgagatatca ggctttgaaa caggcctccg ttgtgatcca 480
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 gacactctgc tgtgatcctt caggctgcat tcagggtttt gaaaactaga agacatttga 600
 agaatatgca ttcctctgca acccttattc agantaggtt tagatcatta ctgggtgagg 660
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<210> 2655

<211> 771

<212> DNA

<213> Homo sapiens

<400> 2655

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tttatgatga acgctggaag gaaaagcagg aacagggctt cacttggtgg ttaaatttta 60
tattaacccc tgatgacttc actgtaaaaa caaatatttc tgaagtaaat gctgctactc 120
ttcttttggg aatagagaat caacataaaa taagtgttcc tagagcacct acaaaagagg 180
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aagctaggcg gttaattgtt cgaaaagata gacacctatg gaaagatgtg ggagaacgtc 360
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caacttatgg agaactcata tctttggaag ataacagtga tgtcacaggg ttggctatgt 480
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ccttggcttc ttctgttnaa gatgcccaaa ttccangnt agtaaaaaaa atccctttaa 720
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<210> 2656

<211> 650

<212> DNA

<213> Homo sapiens

<400> 2656

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gtcgttaggg gagcgagtcg tgaccggttg ggccacactc aacgtgggac gaagcttcgc 60
ctactgtttg actacgtgcg tgcagcctcc cctcgatgtc ggccctcgaa aagagcatgc 120
acctcggccg cttccctct cgcccacctc taccggcag cgggggcagt cagagcggag 180
ccaagatgcg aatgggccct ggaagaaagc gggacttttc ccctgttcct tggagtcagt 240
attttgagtc catggaagat gtagaagtag agaatgaaac tggcaaggat acttttcgag 300

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tctacaagag tggttcagag ggtccagtc tgctccttct gcatggagga ngtcattctg 360
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 ctttggatct gcgaaatcat ggtgaaacaa aggtcaagaa tcctgaagat ctgtctgcan 480
 aaacaatggc aaaagacgtt ggcaatgtng ttgaaccatg tttggggacc ttcctcctcc 540
 aattatgctg attggacntt agcatggggg tgtgctattg cantccacac aagcatcatc 600
 ccaacctggt taccnancct ctttgggtct gttcatgaat tgatnttggt 650

<210> 2657

<211> 683

<212> DNA

<213> Homo sapiens

<400> 2657

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 aacaggagcg catgaaaagt tccctactga aggaacagat gctaaggaaa caggccgagt 120
 tagaatcagc acagtgccga ctccaactgc aggtcctcac tgataagtgc actaggcttc 180
 aaaggcgtgt tcaggacttg caaaaactta cgtcacatca aagtcagaat ttacagcaac 240
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<213> Homo sapiens

<400> 2658

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aagcccatcc agaggttccc acagttcata ctctgcttc aggacatgct gaagaacacc 60
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gctgagaagc tgaacgagca gaagcggctg gctgaccagg tggctgagat ccagcagctg 180
accaagagcg tcagtgaccg cagcagcctc aacaagctgt tgacctcagg ccagcggcag 240
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aagggccagc tggagatcag cagcctggtg cccctggggc ccaagtatgt ggtgaantgg 420
aacacggcgc tgccccangt gcangtggtg gaagtggggc agacggtggc acctatgaca 480
aggacaatgt gctcatccan cactcangcg ccaa 514

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<210> 2659

<211> 489

<212> DNA

<213> Homo sapiens

<400> 2659

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gcgagtgcc a gtgagagtgt ggggtgcgcgc tgtgggcccgc ggcgcgggtg ggtggccgtg 120
cgttcttgcg agccggcctg caggaggcga ggctcccctg gcctcccga cccagcggcg 180
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ctccentant tctggggcgt gttcaccacc tacaaccaca nagctgtcat ggctgccatc 360
tctacttcca tccctgtaat ttcacagccc canttcacan ccatgaaatg aaccacagtg 420
cttctacaac nantccattg ccttctttta taaccgaagt ggaaagcatc tttgccacaa 480
aatggnaac 489

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<210> 2660

<211> 703

<212> DNA

<213> Homo sapiens

<400> 2660

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cactgccaca gtgtcatccc acagtttcct tccctggaca ttgataaag ggaaaatcat  180
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taacattgat ttactcgtag taggantttc atactgttga actctctaaa ggccatttgt  300
tccagggcct anctgggctt gtgaaggaca acagantcat ttcctaagga ccccaaaaga  360
cagcatgaag gaaaaataa taataaactg ctgttcacag tgccttgagt gtaccaccgt  420
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caagtggtat ccagcactca agttctggct caanggccaa catctccgtg ggggacctca  540
nccatcccag ggcattgtga ccccttcctc taantccccg ggnacactcc ctgattggta  600
ccctctcatt ccacnaacat atgccattgt ggcttacttg tcatttcttt angtcttgcc  660
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<210> 2661

<211> 743

<212> DNA

<213> Homo sapiens

<400> 2661

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naaatggaaa attagaagat aatccttcct ctggcagtcc cccaaggact actttgttgg   60
ggaccatatt ttcacctgtc ttcaactttt tttcaccagc aaataaaaat ggaacgtcag  120
gatcagattc tccaggacag gctgtggaag ctgaagaaat agtaaaacaa cttgatatgg  180
aacaggtgga tgagatcact accagtacta ctacatcaac taatggagca gcttactcaa  240

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atcaagcagt tcaagtgaga ccatcactaa acaatggttt agaagaagca gaagaaacag 300
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 aacatgtccc gccactgaca gaagaacaac taaataggaa acctgctctt ccgttgaaaa 480
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 atcaggttta tgttgagatt aaagaccatt tttcaggga ttcctggga cgaatgtctc 660
 agatgtttga aaatcattcc tttttactgc ttctaaagaa gggtttttgc caaaacnant 720
 tactgaaacn tncttanaac cct 743

<210> 2662

<211> 739

<212> DNA

<213> Homo sapiens

<400> 2662

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 gaaaagggtg cagatgagaa ggattcaggg aagacattag ataaaaagcc aagtaaagaa 180
 atgagctcag attctgaata tgactctgat gatgatcgga cttaaagaaga aagggttat 240
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 caaattgggg ccaccaatgt tcctcttgaa gctattaatg aacagactaa gatgattgaa 480
 aattttgata gaganaatgt tcggattcca ggaatgctaa ttattgatac tcctgggcct 540
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 cctaaaaaaa ttttccctcc ttgtttgncc cncattaaa aattgattag gttttntga 720
 att aaaa aanaattcc 739

<210> 2663

<211> 753

<212> DNA

<213> Homo sapiens

<400> 2663

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aataacctgg agccggcggc gtaggttggc tctttagggc ttcaccccgga agctccacct 60
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ggctgctgcg ggtgccctgg atccagtcgg ctgcaccagg cgagcgagac ccttccctgg 180
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gaagacagct gccactacct gttgtattca ctcatctttg taaattccta tccagttaca 660
atgaattatc ttccantct tgttattctc tttgcttcat gctgccacat atacnaaaaa 720
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<210> 2664

<211> 611

<212> DNA

<213> Homo sapiens

<400> 2664

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tccatggact cttaccgaag gggtatcccc atctgtgctc tatatgtgat ttgccagttc 60
attctaataa ggagtggagt caacatatca atggagcaag tcacagtcgt cgatgccagc 120

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ttctttcttga aatctaccca gaatggaatc ctgacaatga tacaggacac acaatgggtg 180
atccattcat gttgcagcag tctacaaatc cagcaccagg aattctggga cctccacctc 240
cctcatttca tcttggggga ccagcagttg gaccaagagg aaatctgggt gctggaaatg 300
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catttggagt catttcaa atctctgattc taaataaaat taatgaggca tttattgaaa 480
tggaaccac agaggatgct caggccgcag tggattatta cacaaccaca ccagcgtag 540
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aangaaagcc c 611

<210> 2665

<211> 672

<212> DNA

<213> Homo sapiens

<400> 2665

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gggagggagg anagaagcga agcgtttccg cggttggtc ctcagtgtct tggctcgaag 120
ttgcctcatt gcggctggcg ttcccaatac agacgcacgc tttctttttt aatactccct 180
aagaaaggga ataaccttca agctggcggg agcaatggtt cacataaaga aaggcgagct 240
gaccaggag gagaaggagc tactggaagt catcgggaaa ggtactgtcc aagaagctgg 300
aacattatta tccagcaaga atgttcgtgt caactgtttg gacgagaatg gaatgactcc 360
tctaattgat gcagcatata aaggaaaact cgatatgtgc aaattactac tgcgacatgg 420
agccgatgta aattgtcatc agcatgaaca tggatacaca gccctcatgt ttgctgcact 480
ttctggtaat aaagacatca catgggtaat gttagaagct ggtgctgana cagatgttgt 540
caactctgtg ggaagaacag cagctcagat ggcagccttt gtggatcaac atgattgtgt 600
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actggataaa ga 672

<210> 2666

<211> 693

<212> DNA

<213> Homo sapiens

<400> 2666

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aacccttccc catggccgac cctgaggagt tgcaggtttc ttcgccgccc ccgccgcctc 120
cctcttctcc ctctcttca gacgcctctg cagcatcttc cccgggcggc ccagtgaagt 180
tgggctggcc agttccgagc aggagcagcg gcccaacggt ggaccagctg gaggaagtgg 240
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<210> 2667

<211> 533

<212> DNA

<213> Homo sapiens

<400> 2667

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acagaccaga tgggctctct gggcctcctc ctccaaatgc ccagtaccag cccccacctc 300
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<210> 2668

<211> 820

<212> DNA

<213> Homo sapiens

<400> 2668

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<210> 2669

<211> 507

<212> DNA

<213> Homo sapiens

<400> 2669

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<211> 584

<212> DNA

<213> Homo sapiens

<400> 2670

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<210> 2671

<211> 560

<212> DNA

<213> Homo sapiens

<400> 2671

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<210> 2672

<211> 720

<212> DNA

<213> Homo sapiens

<400> 2672

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